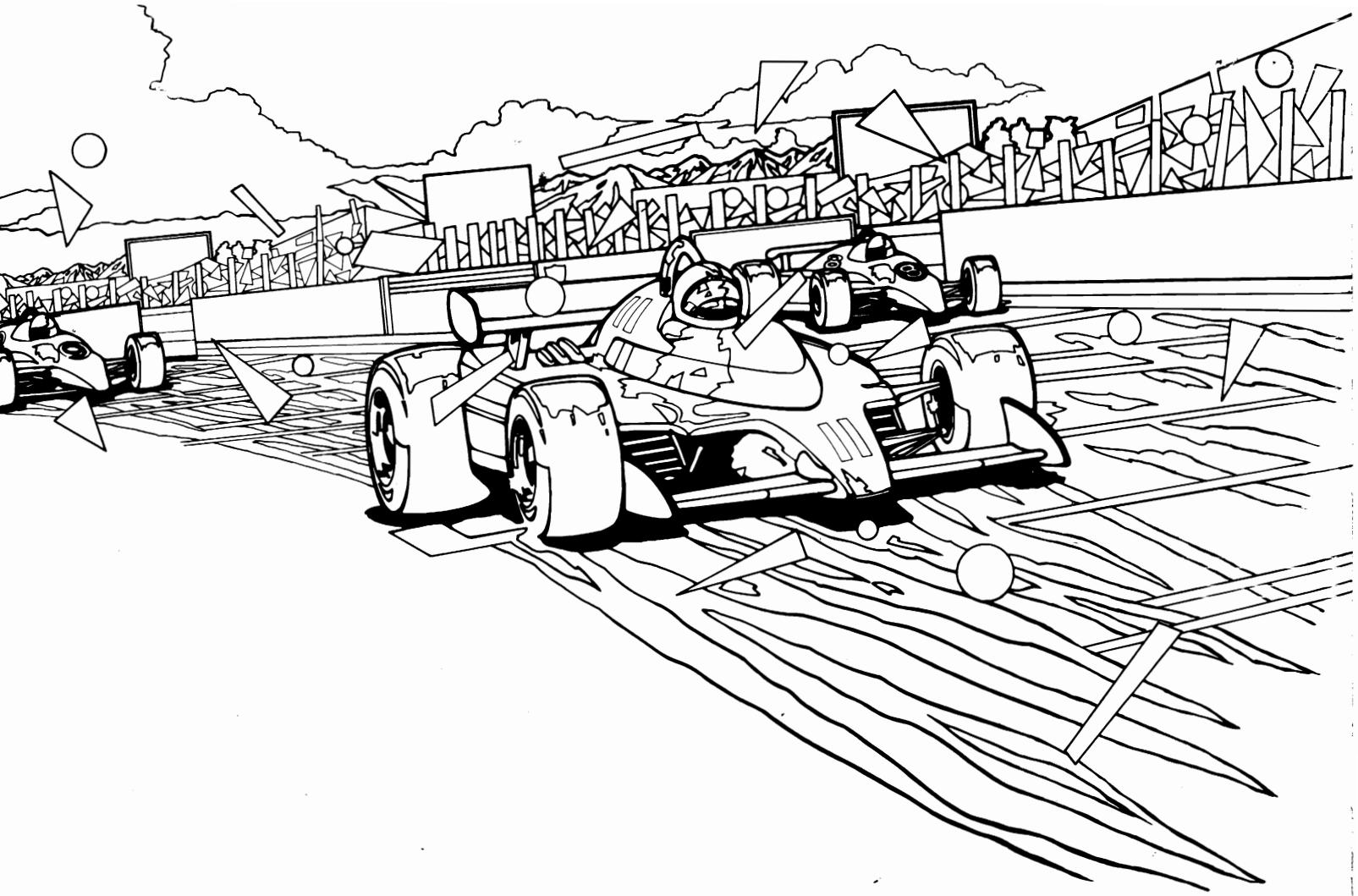


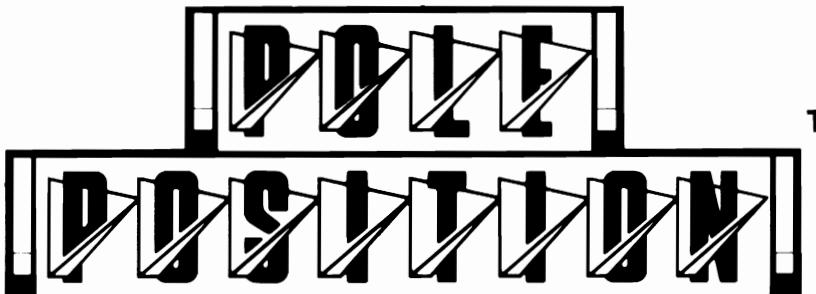
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NOTE
This staple temporarily holds the schematic package together. Remove the staple before using these schematics.



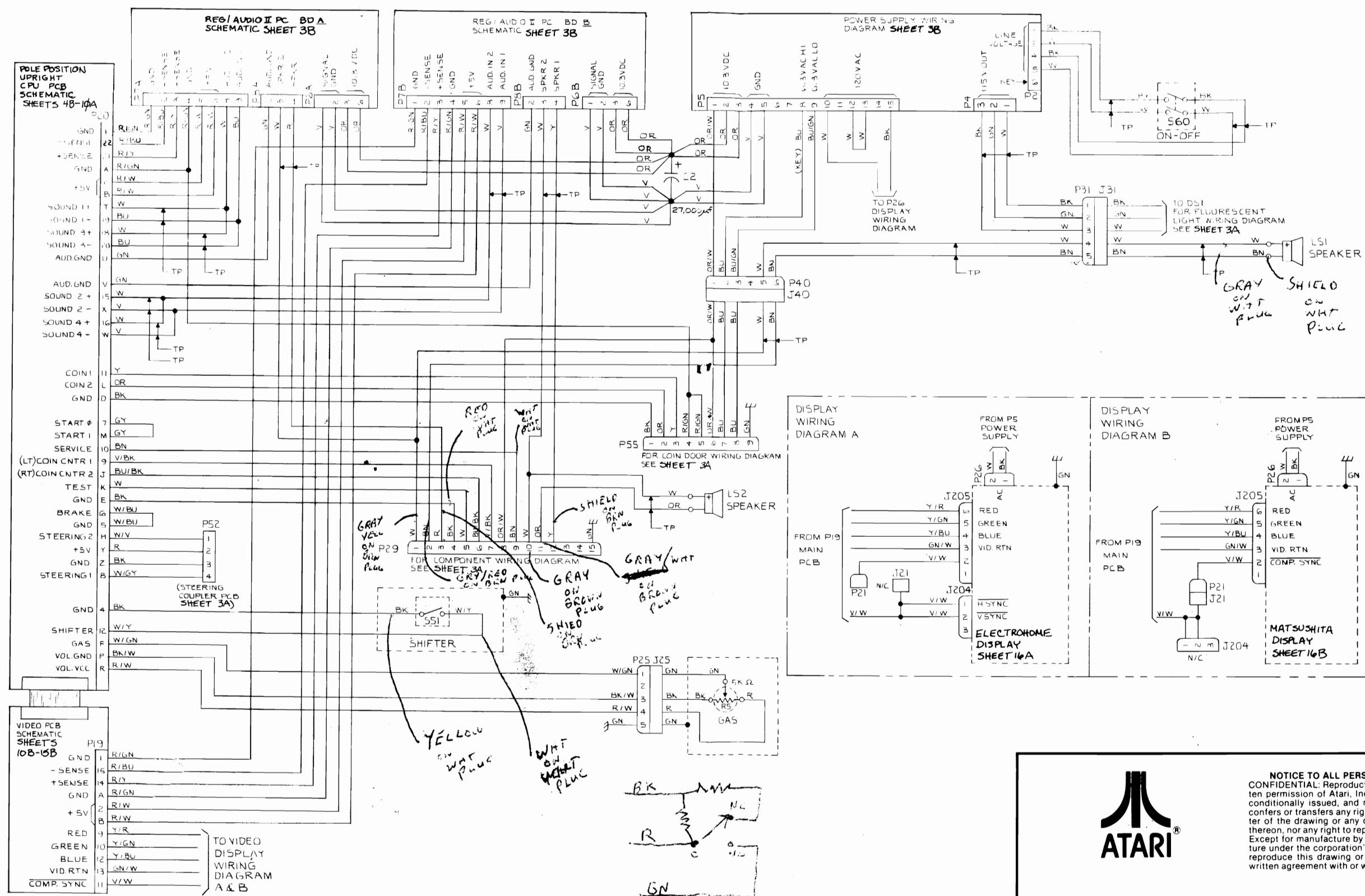
Schematic Package Supplement to



TM*

Operation, Maintenance, and Service Manual

*Pole Position is engineered and designed by Namco Ltd. Manufactured under license by Atari, Inc.



Pole Position Upright Main Wiring Diagram

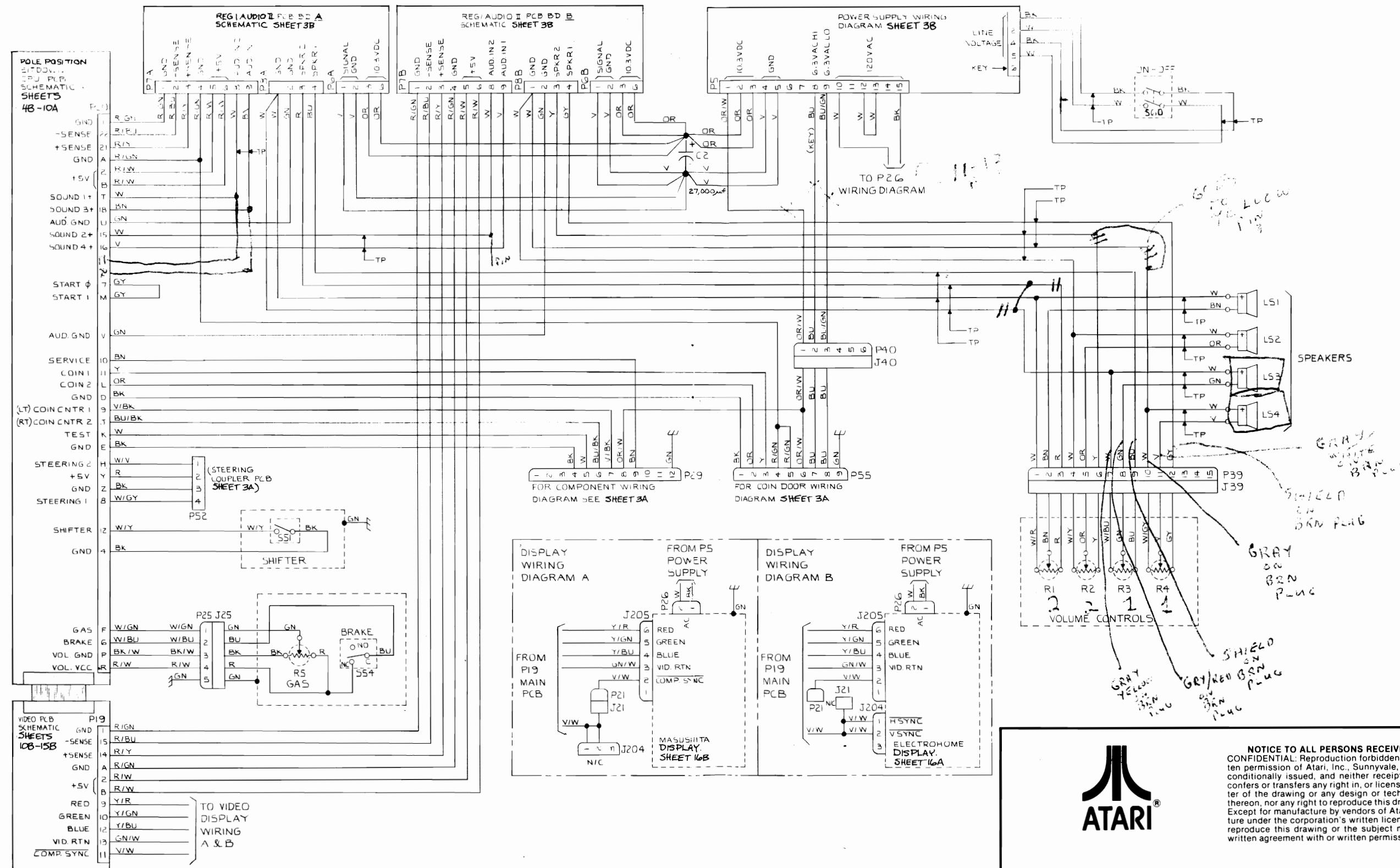
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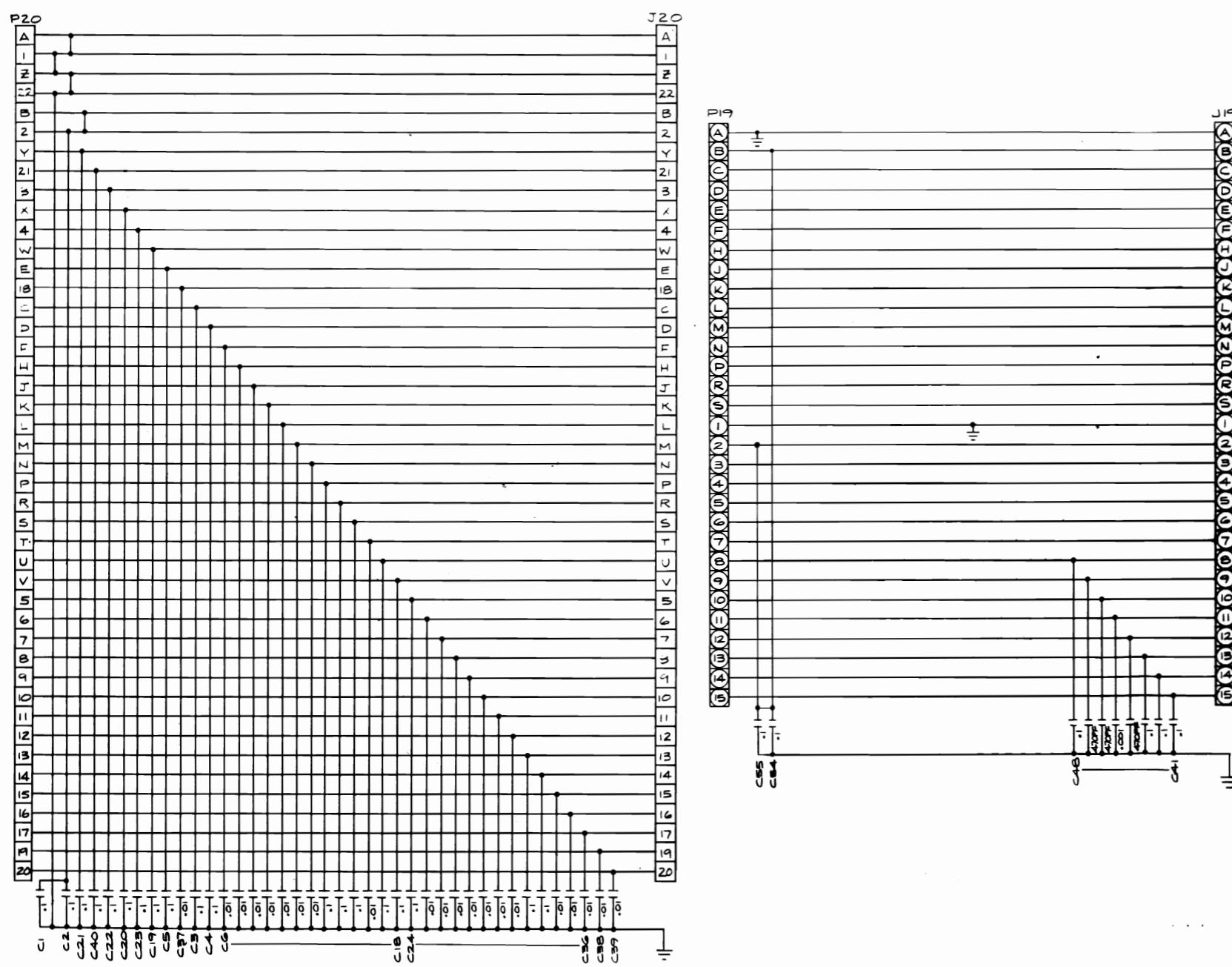




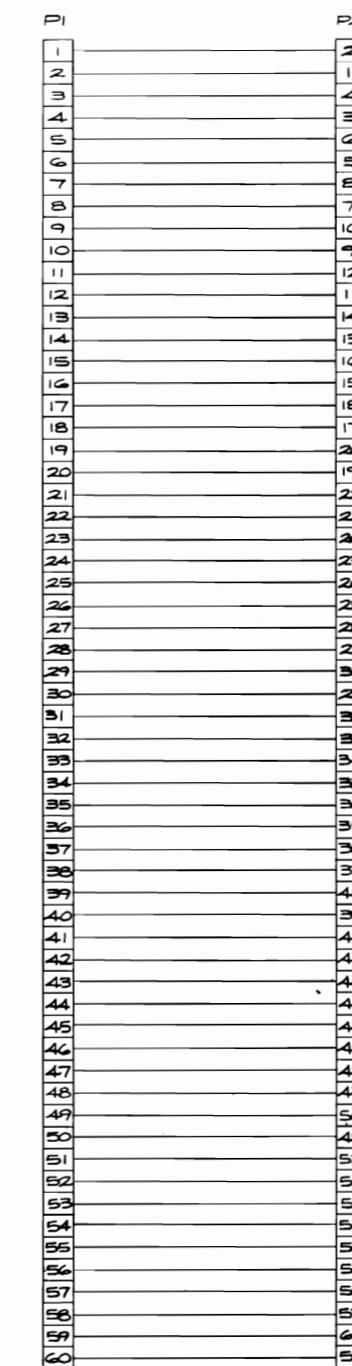
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Pole Position Sit-Down Main Wiring Diagram

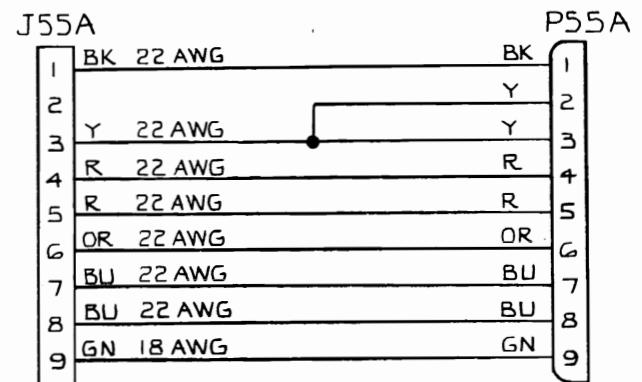
EMI Shield PCB Wiring Diagram



EMI End PCB Wiring Diagram



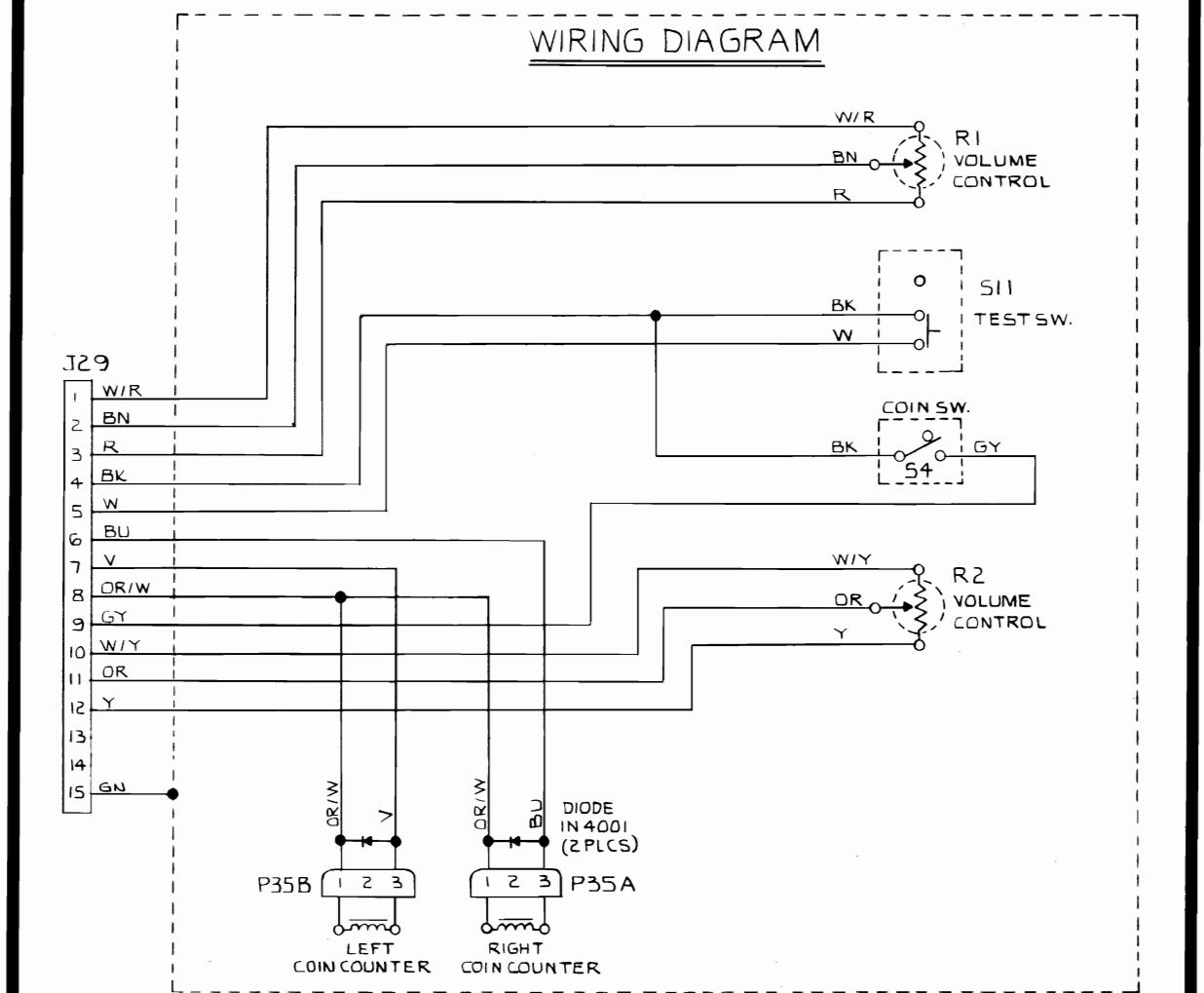
Coin Option Interconnect Wiring Diagram



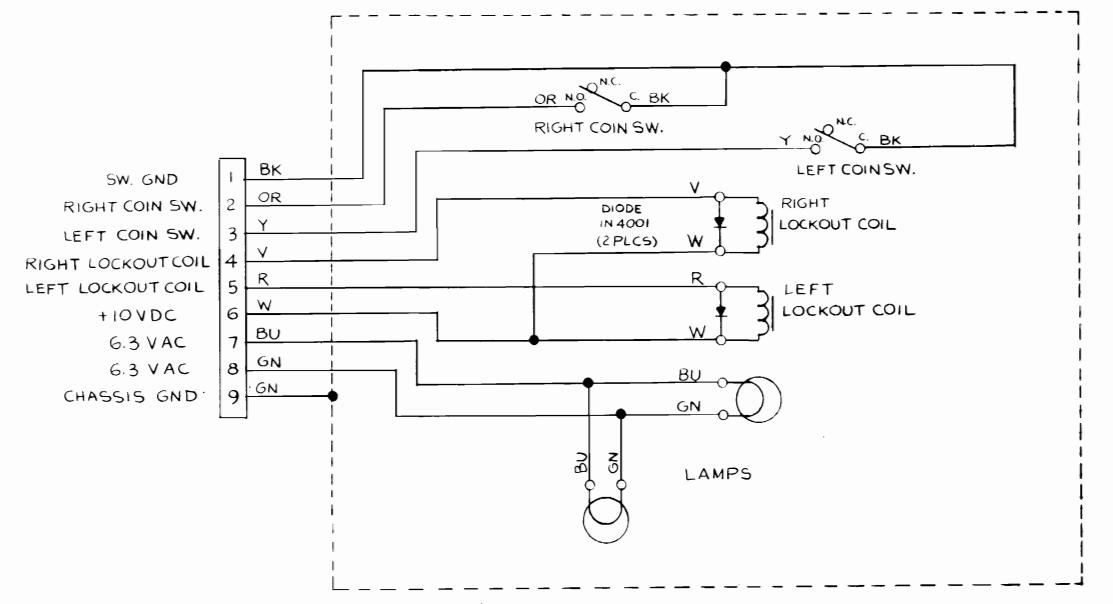
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Pole Position Game Wiring Interfaces

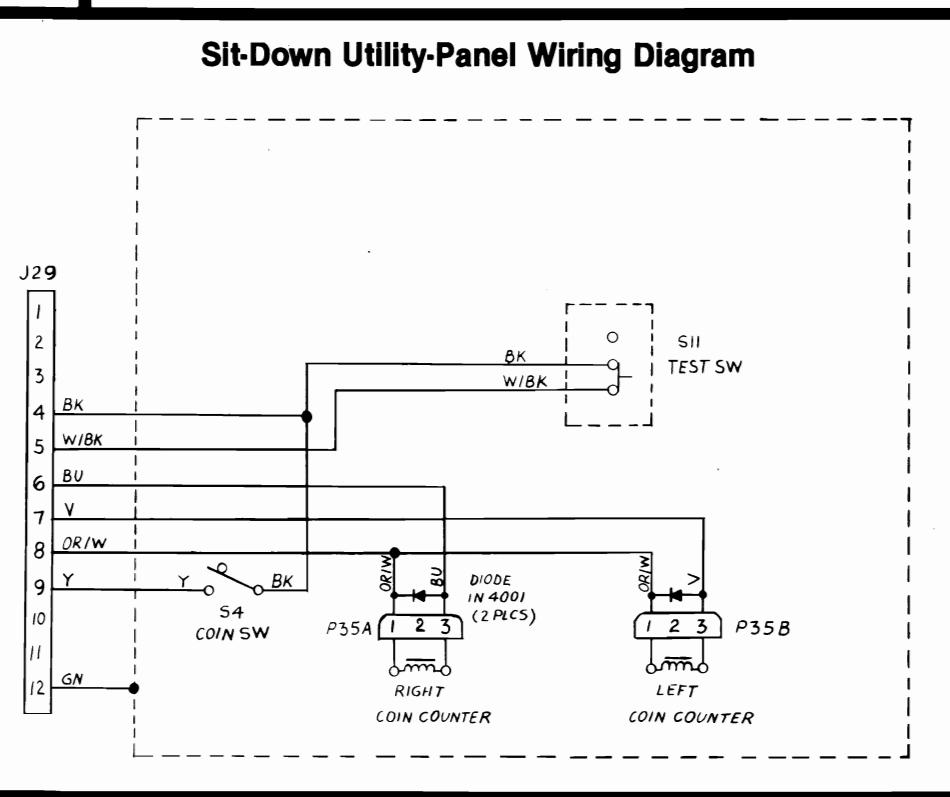
Upright Utility-Panel Wiring Diagram



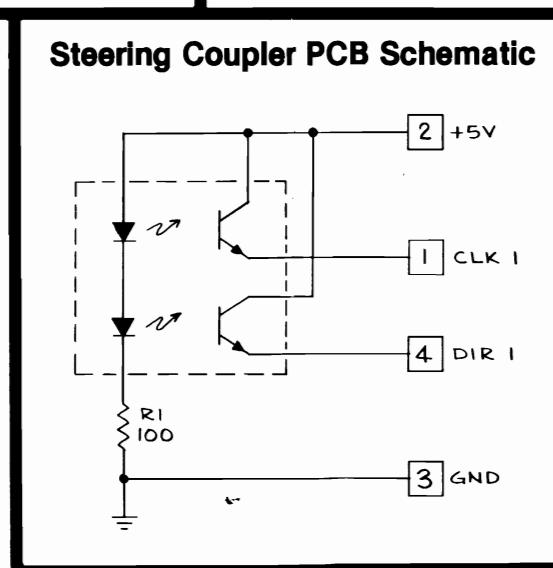
Coin-Door Wiring Diagram



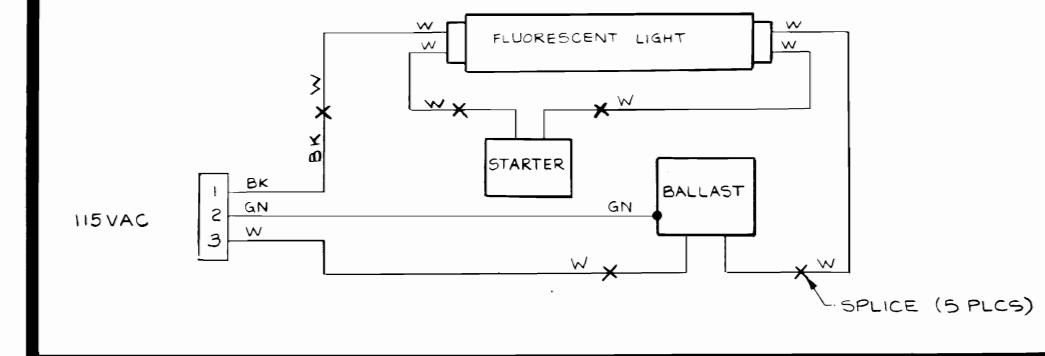
Sit-Down Utility-Panel Wiring Diagram



Steering Coupler PCB Schematic

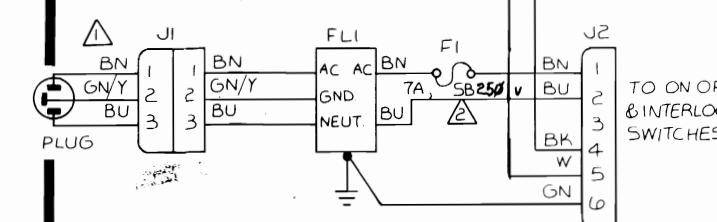
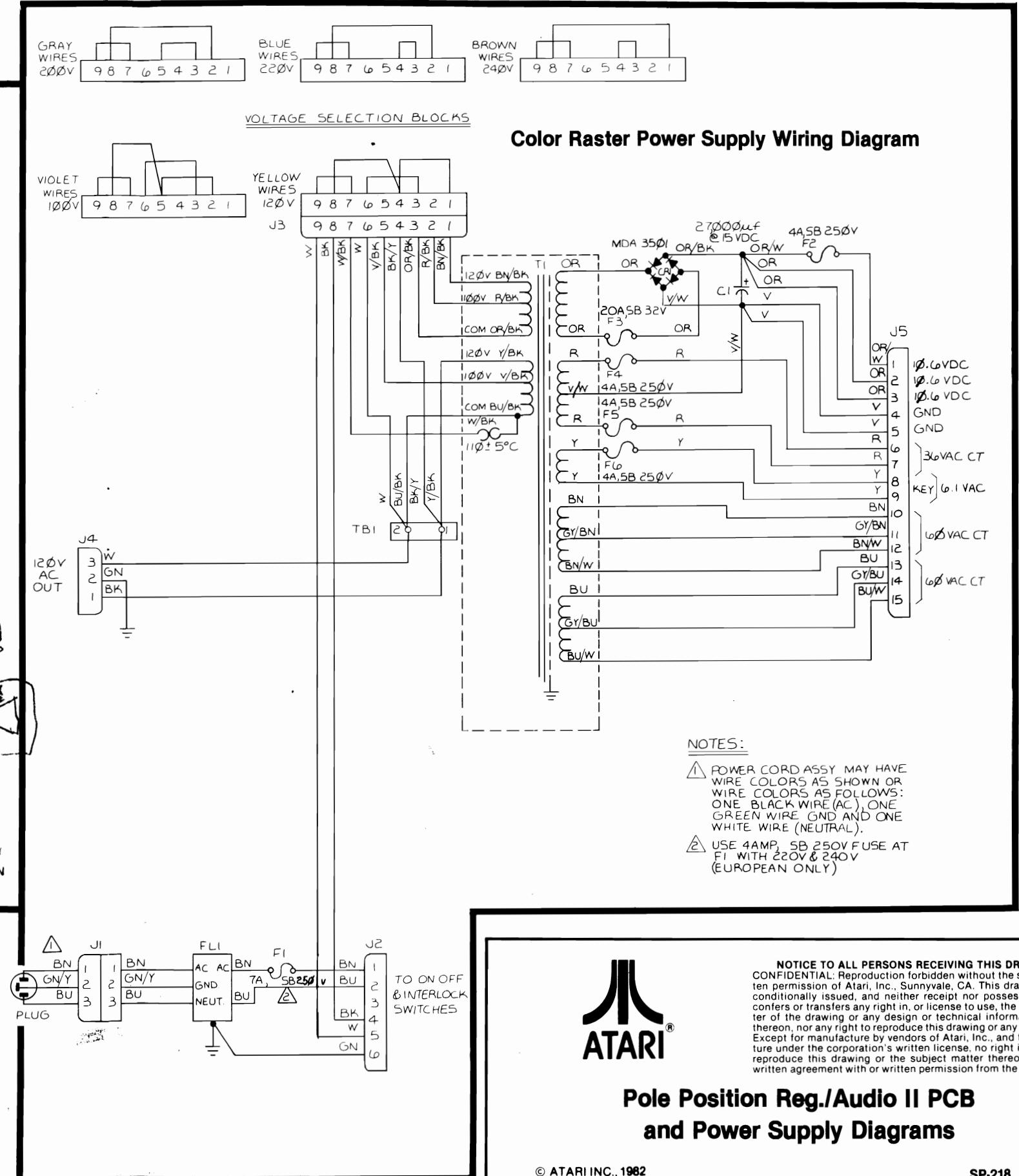
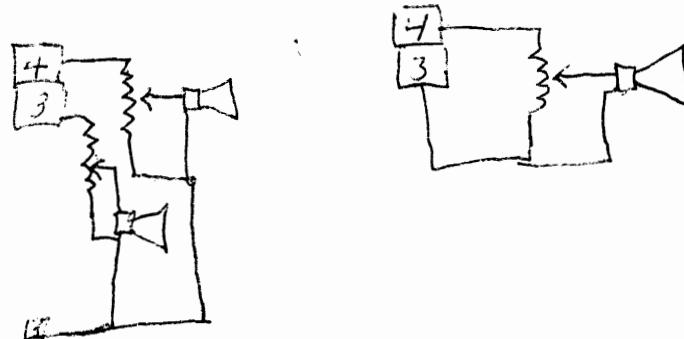
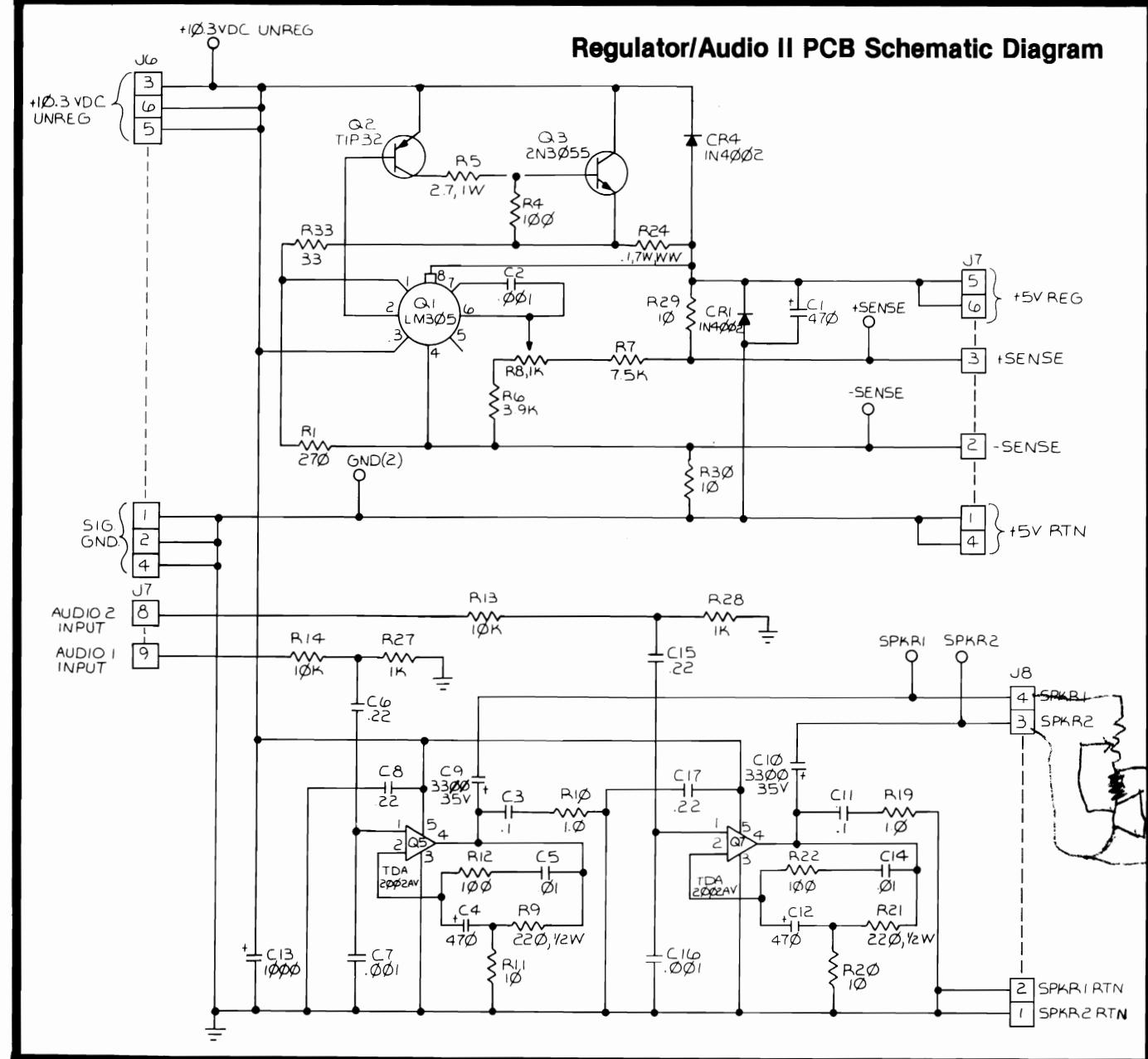


Upright-Only Fluorescent Light Wiring Diagram



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Pole Position Game Wiring Interfaces



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**Pole Position Reg./Audio II PCB
and Power Supply Diagrams**

MEMORY MAP

CPU 1 AND 2

HEXADECIMAL ADDRESS	READ/ WRITE	FUNCTION
0000-37FFF	R	Program Memory
4000-7FFF	R	Program Memory
8000-8FFF (8700-87FF) (8F00-8FFF)	R/W	Motion Object Memory Vertical and Horizontal Position Character, Color, Vertical Size, Horizontal Size
9000-97FF (9000-93FF) (9700-97FF)	R/W	Road Memory Character Horizontal Scroll
9800-9FFF A000-AFFF	R/W R/W	Alphanumeric Memory View Character Memory
C000	W	View Horizontal Position
C100	W	Road Vertical Position

CPU 3

HEXADECIMAL ADDRESS	READ/ WRITE	FUNCTION
0000-1FFF	R	Program Memory
2000-2FFF	R	Program Memory
3000-37FF	R/W	Battery Back-Up RAM
4000-43FF (4380-43FF)	R/W	Motion Object Memory Vertical and Horizontal Position
4400-47FF (4780-47FF)	R/W	Motion Object Memory Character, Color, Vertical Size, Horizontal Size
4800-48FF (4800-49FF) (4B80-4BFF)	R/W	Road Memory Character Horizontal Scroll
4C00-57FF (4C00-4FFF) (5000-53FF)	R/W	Alphanumeric Memory Alphanumeric View Character
8000-83FF (83C0-83FF)	R/W	Sound Memory Sound
9000	R/W	4-Bit CPU Controller
A000	R/W	Input/Output
A000	W R	IRQ Enable (1 = enable, 0 = disable) Bit 0: Not Used Bit 1: 128 V Bit 2: Power-Line Sense Bit 3: ADC End Flag
A001	W	4-Bit CPU Enable
A002	W	Sound Enable
A003	W	ADC Input Select
A004	W	CPU 1 Enable
A005	W	CPU 2 Enable
A006	W	Start Switch
S007	W	Color Enable
A100	W	Watchdog Reset
A200	W	Car Sound (Lower Nybble)
A300	W	Car Sound (Upper Nybble)

Schematic Reference Designators and Symbols

Logic symbols depict the logic function performed by that particular device and may differ from the manufacturer's data.

REFERENCE DESIGNATORS:

C Capacitor
CR Diode, signal or rectifier
F Fuse
J Connector

L Inductor, fixed or variable
LS Speaker
P Connector
Q Transistor or silicon-controlled rectifier

R Resistor, fixed or variable
S Switch
T Transformer
TP Twisted wire pair

VR Voltage regulator
Y Crystal

WIRE COLORS:

R Red
GN Green
Y Yellow
W White

BU Blue
BN Brown
BK Black
OR Orange

V Violet
GY Gray

Electrical components shown on the schematic diagrams are in the following units unless otherwise noted:

Capacitors = microfarads (μ F)
Resistors = ohms (Ω)
Inductors = microhenrys (μ H)

SYMBOLS:



Ground



Test Point



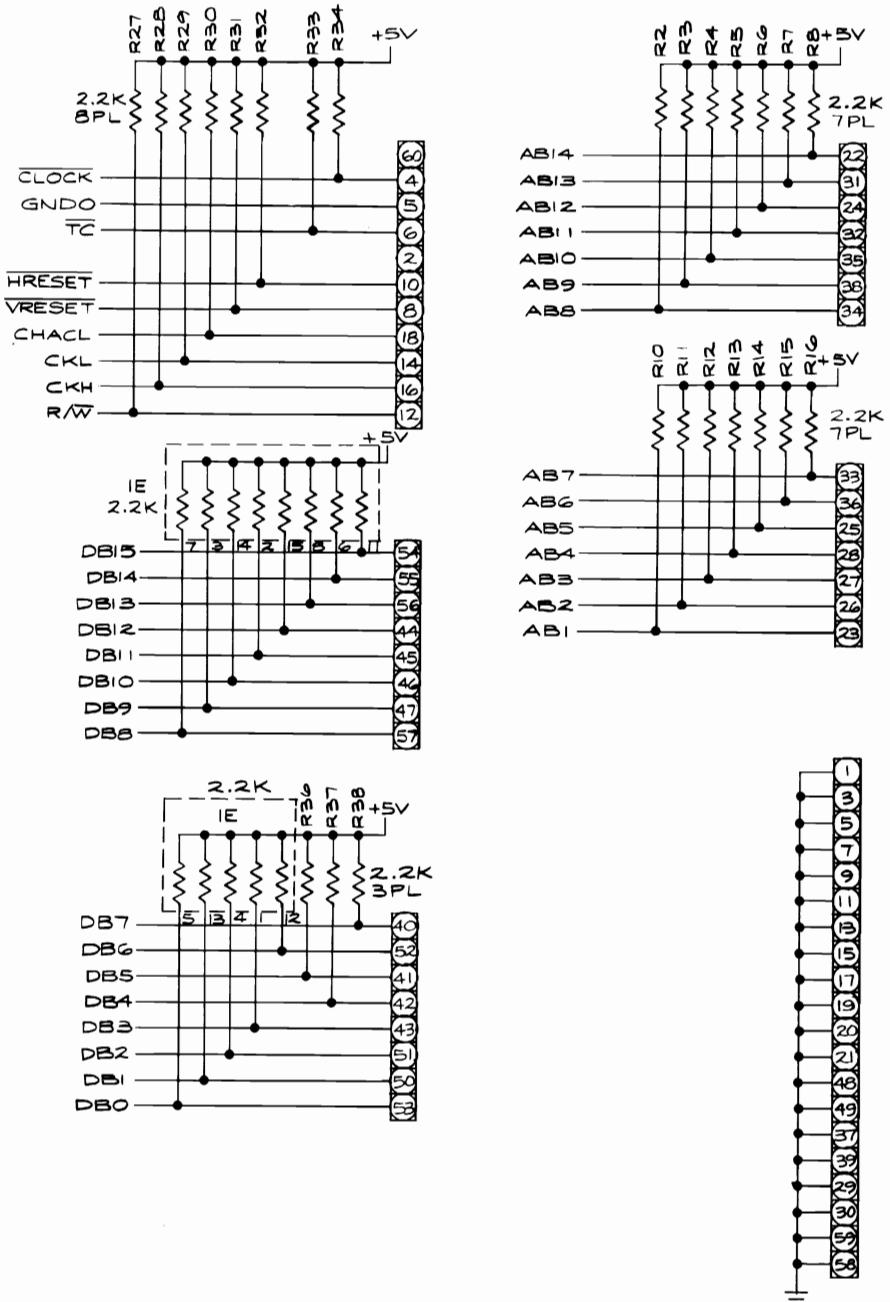
PCB edge connector pad



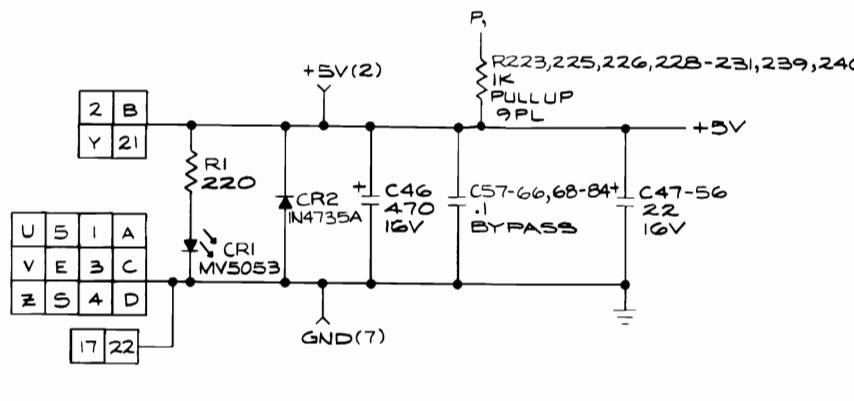
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Pole Position Memory Map and Schematic Notes

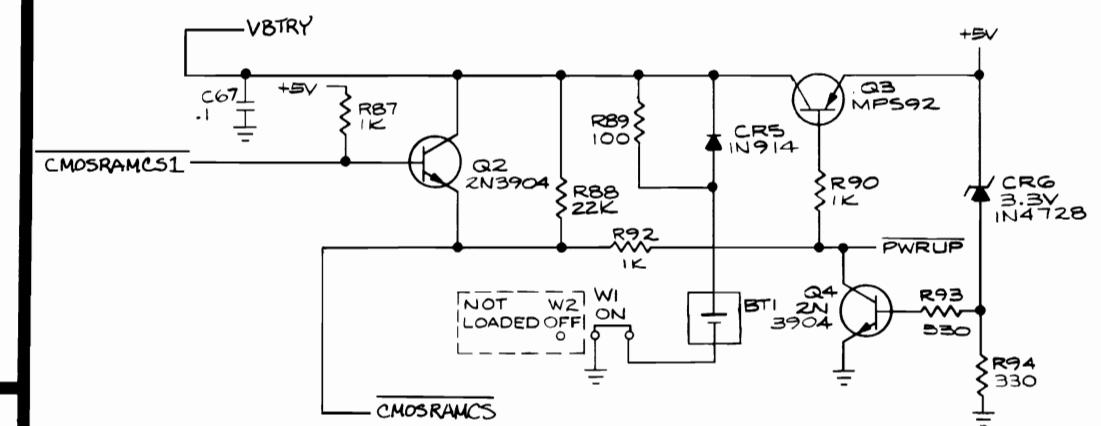
CPU PCB Edge Connector



CPU PCB Power Input



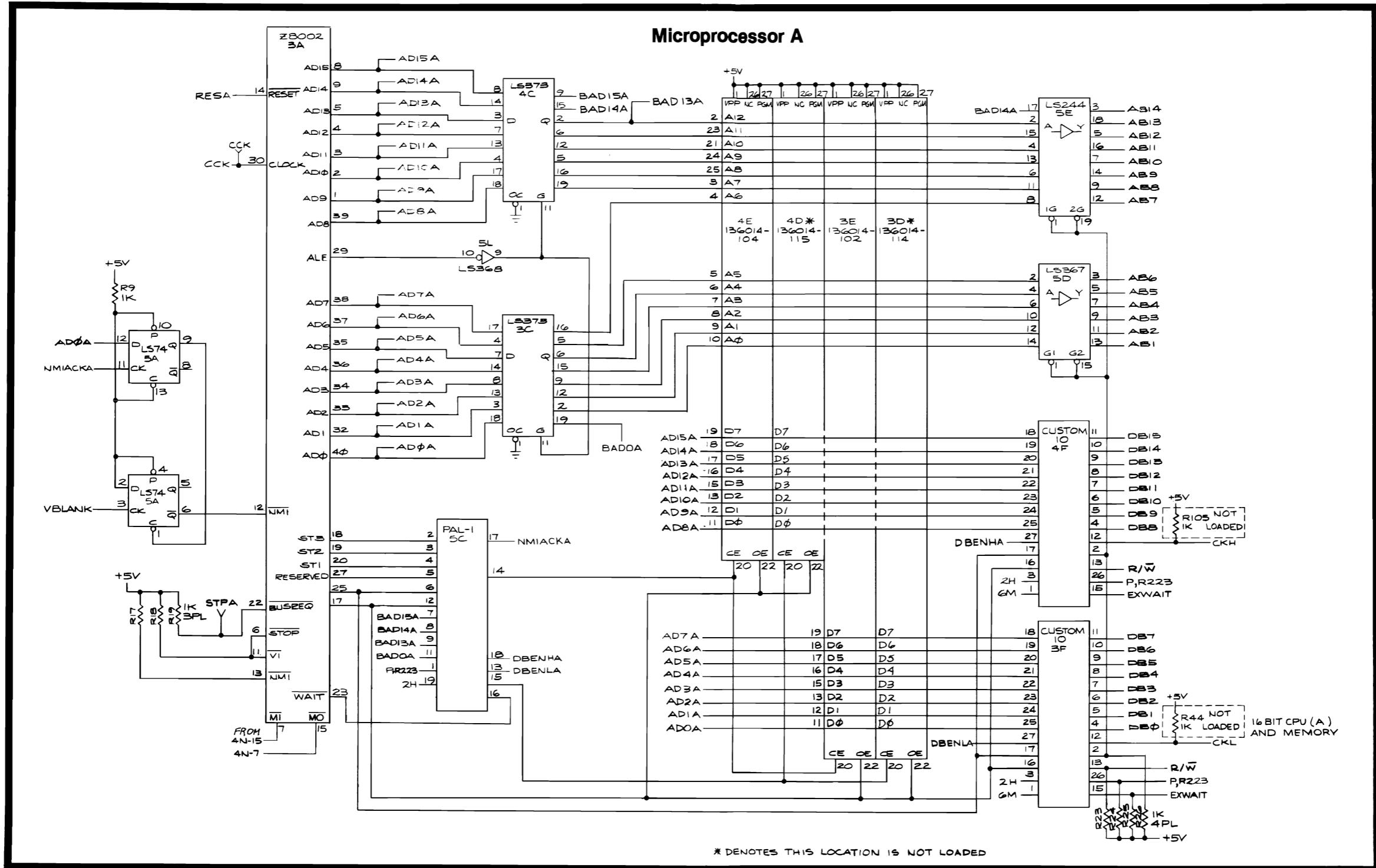
RAM Battery Back-Up Power



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Pole Position CPU PCB Schematic Diagram



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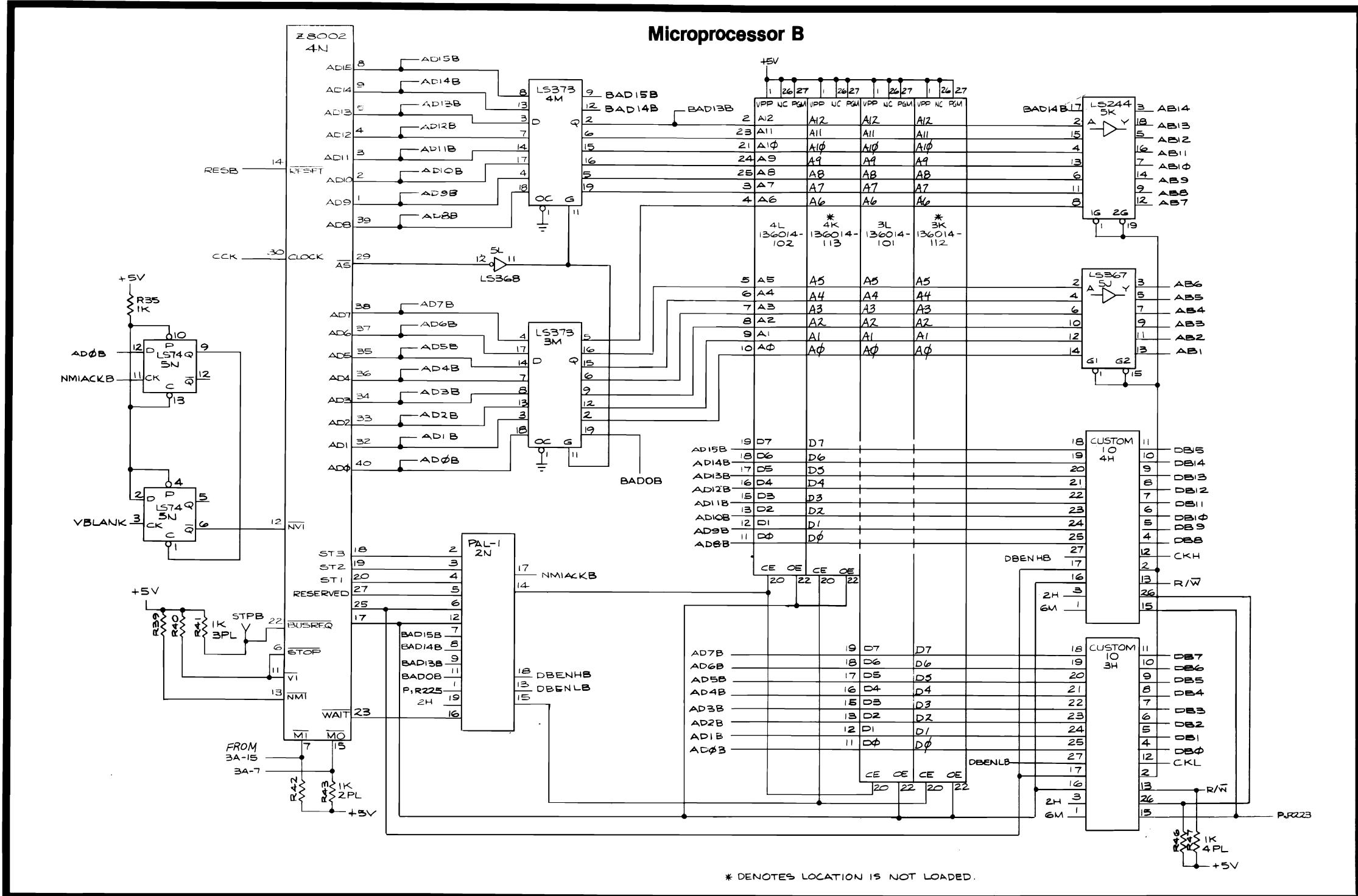


Pole Position CPU PCB Schematic Diagram

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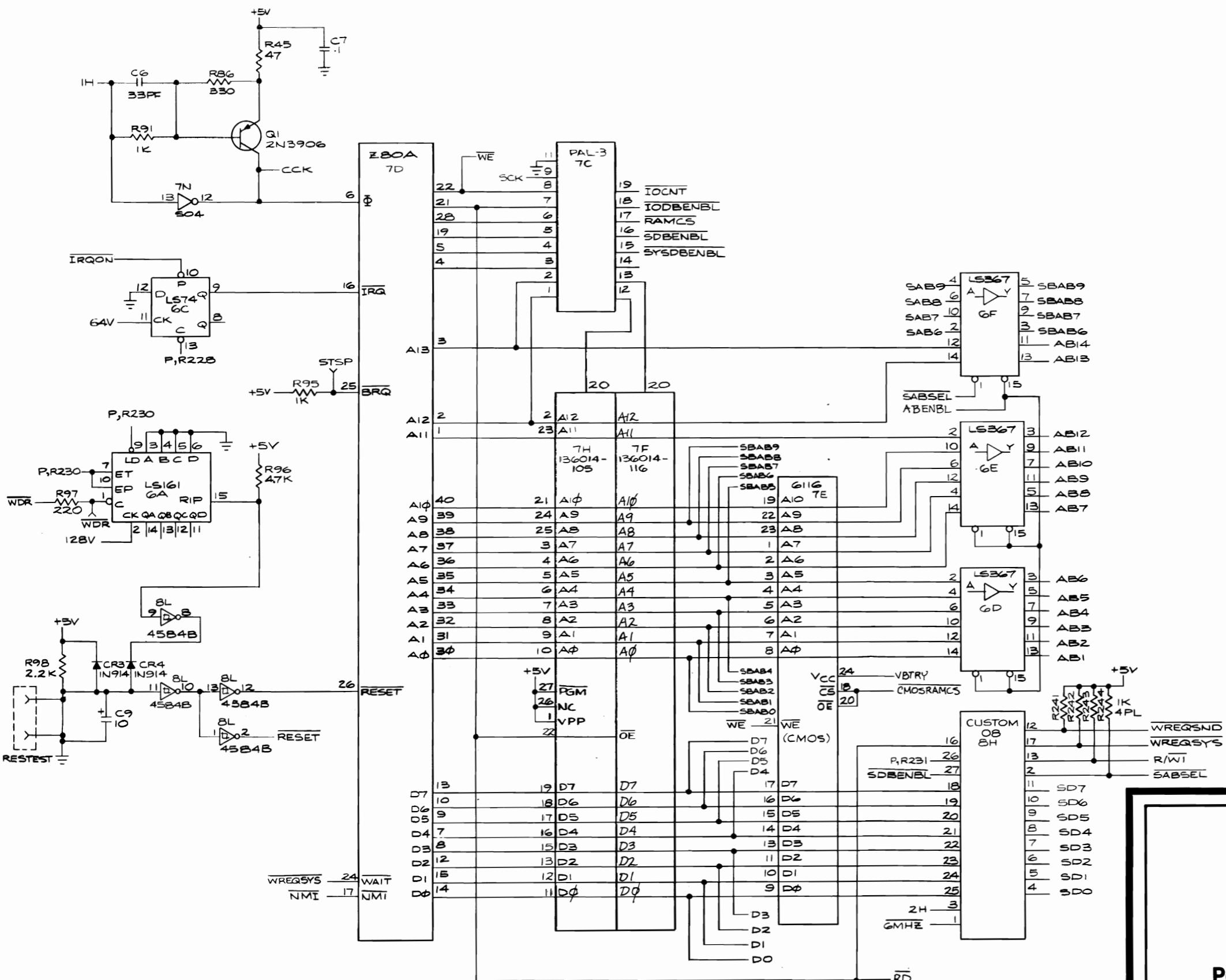


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Pole Position CPU PCB Schematic Diagram

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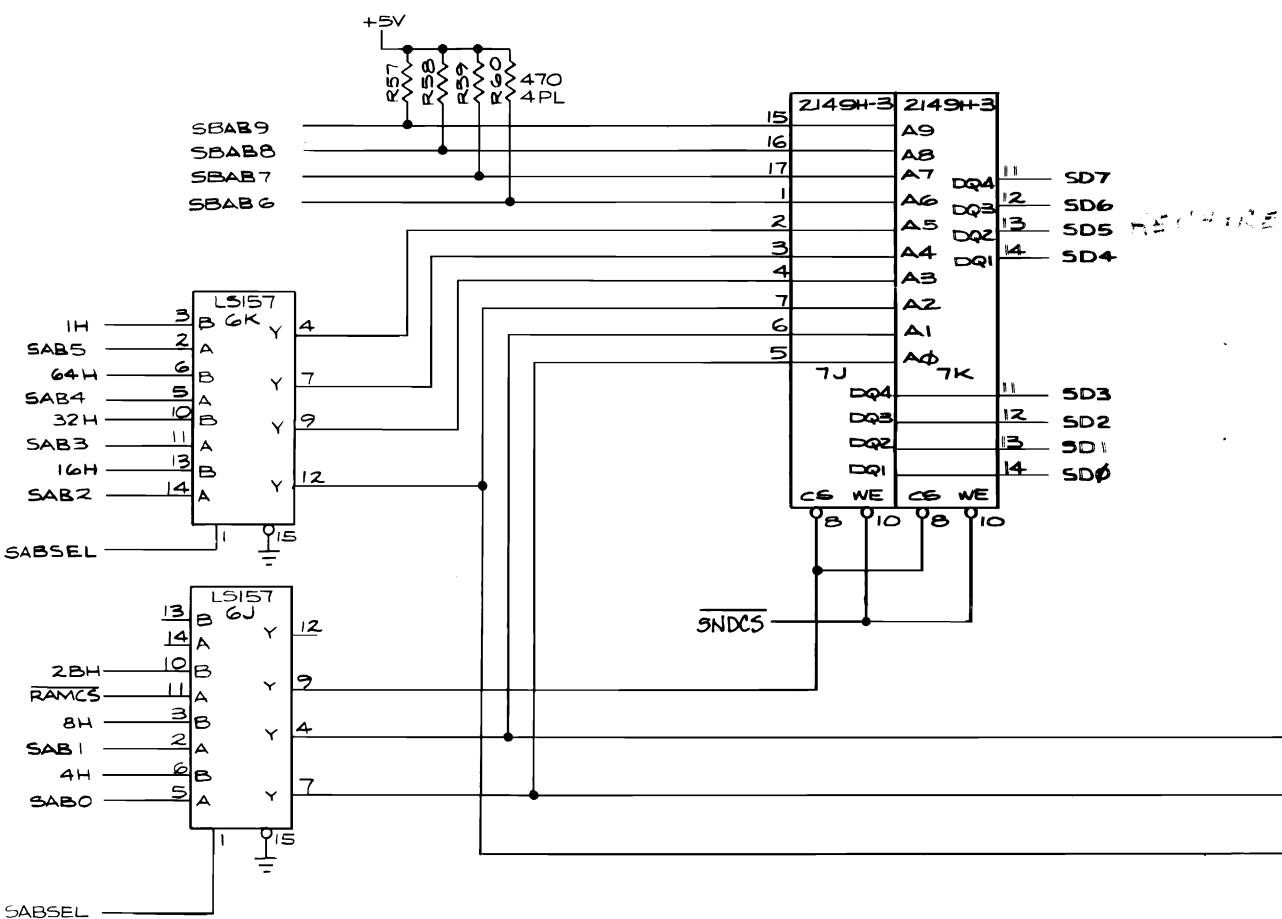
Sound Microprocessor



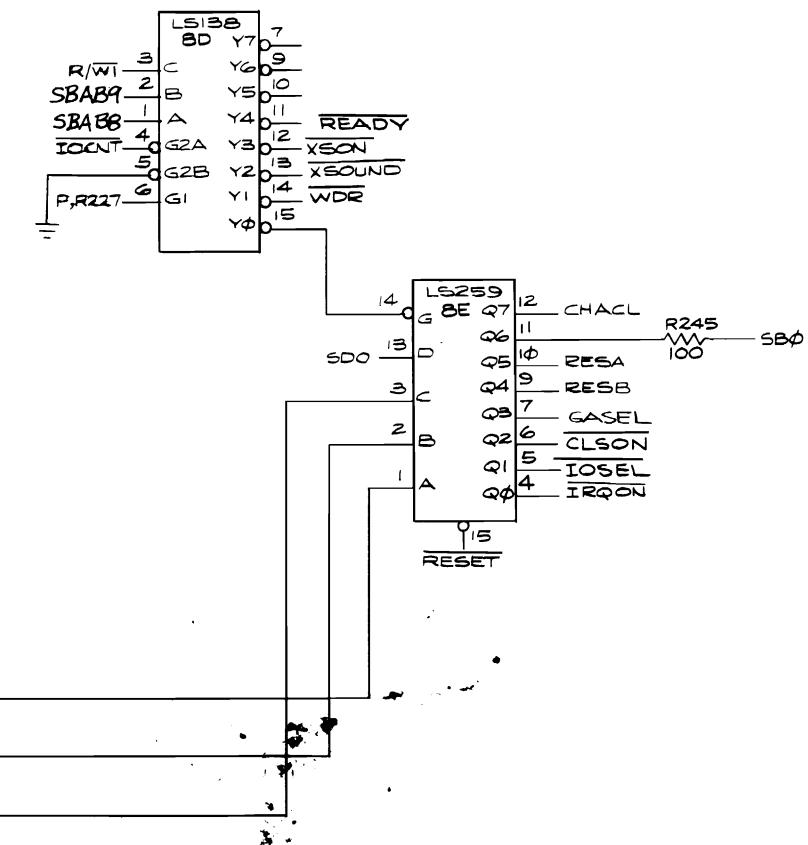
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Pole Position CPU PCB Schematic Diagram

Sound Memory



Sound and I/O Address Decoders

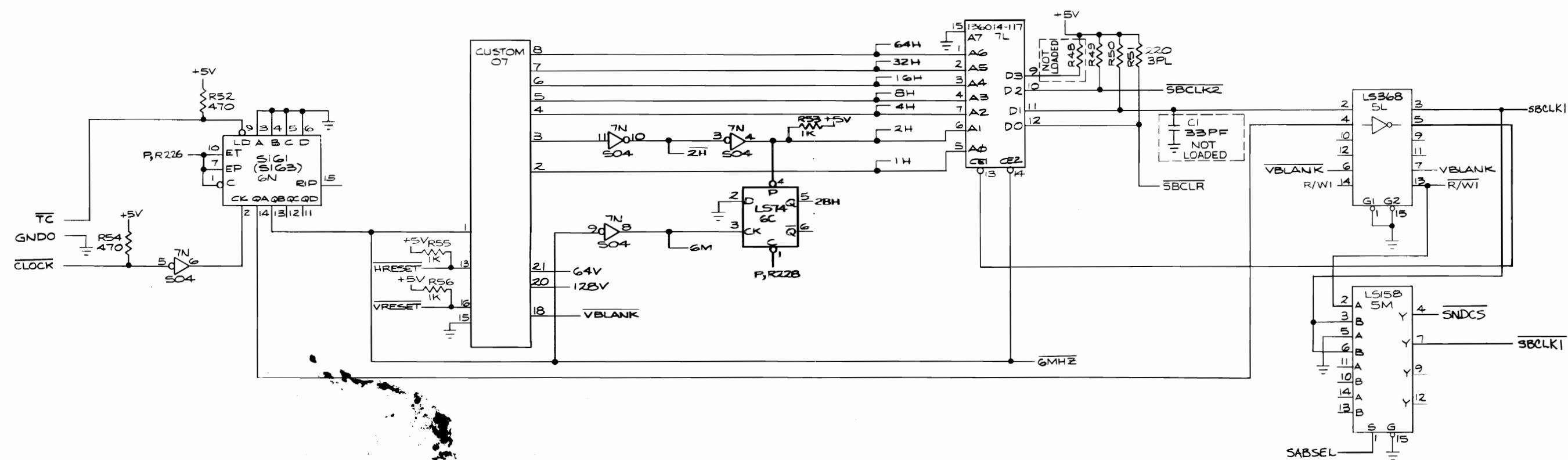


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Pole Position CPU PCB Schematic Diagram

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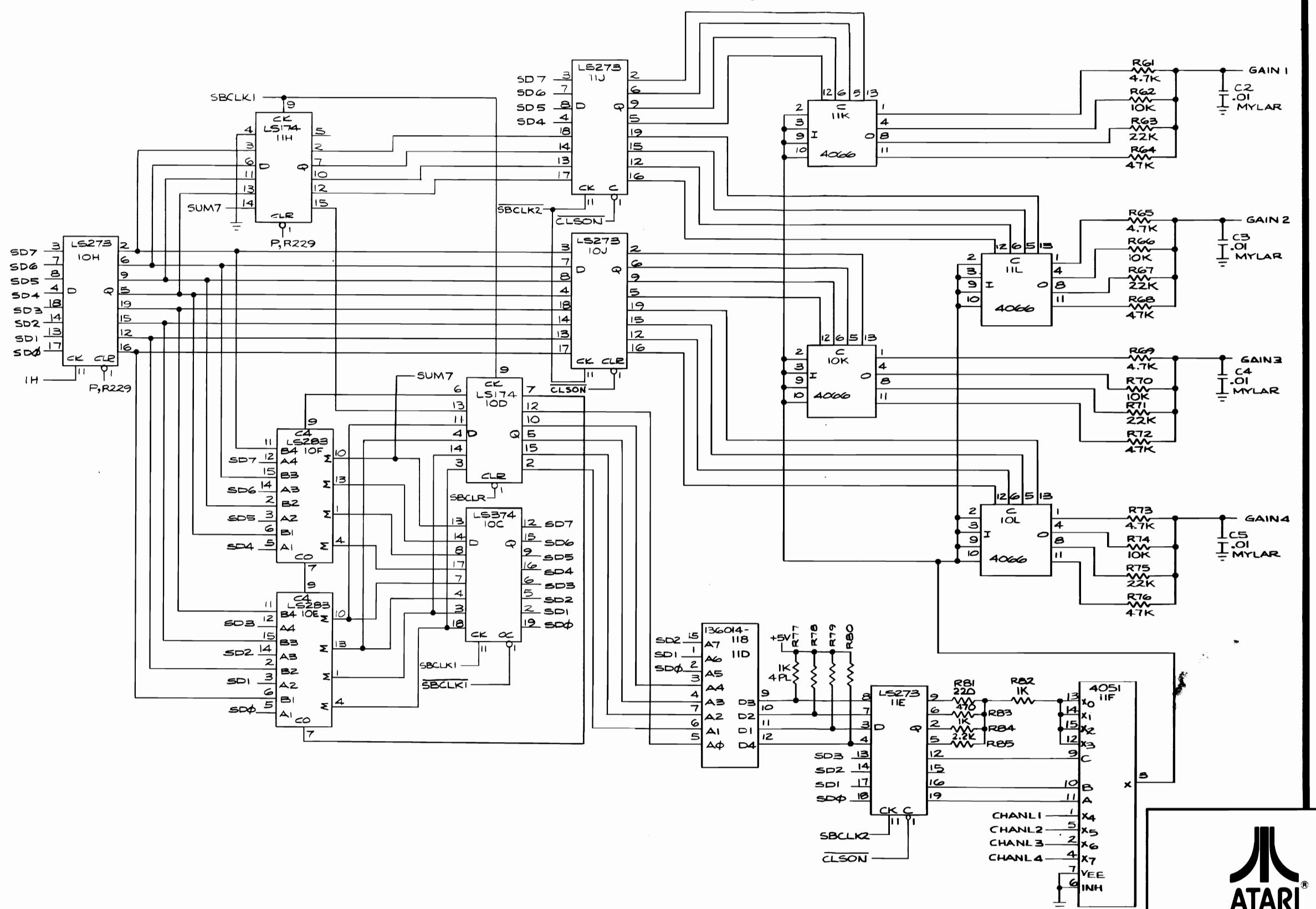
CPU PCB Sync Chain



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Pole Position CPU PCB Schematic Diagram

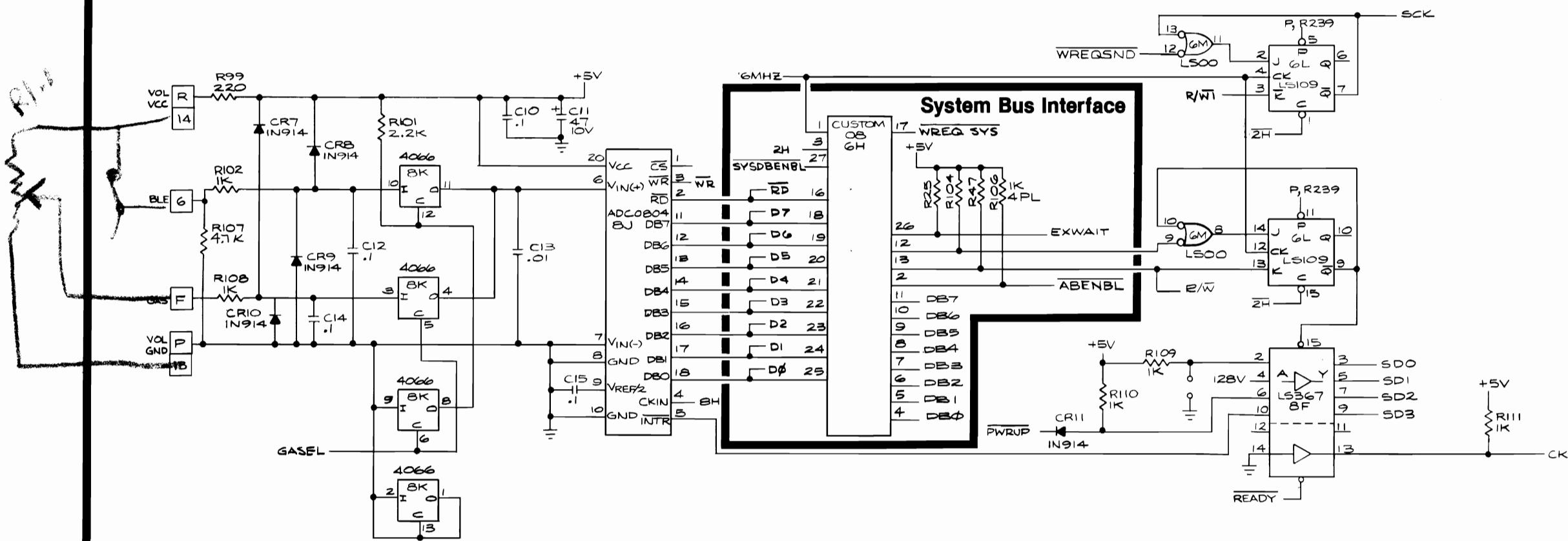
Sound Buffers and Multiplexer



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Pole Position CPU PCB Schematic Diagram

Brake and Gas Pedal Input

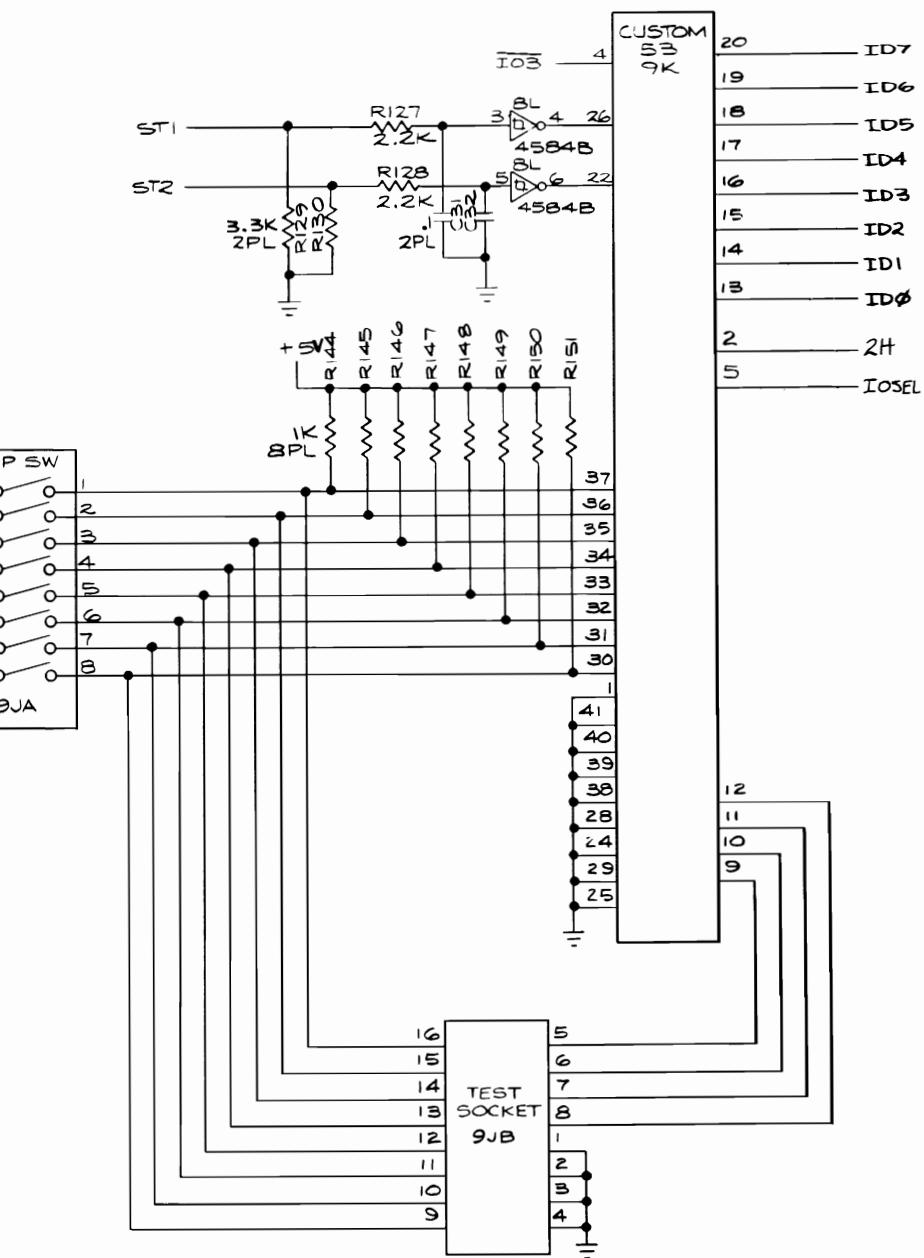
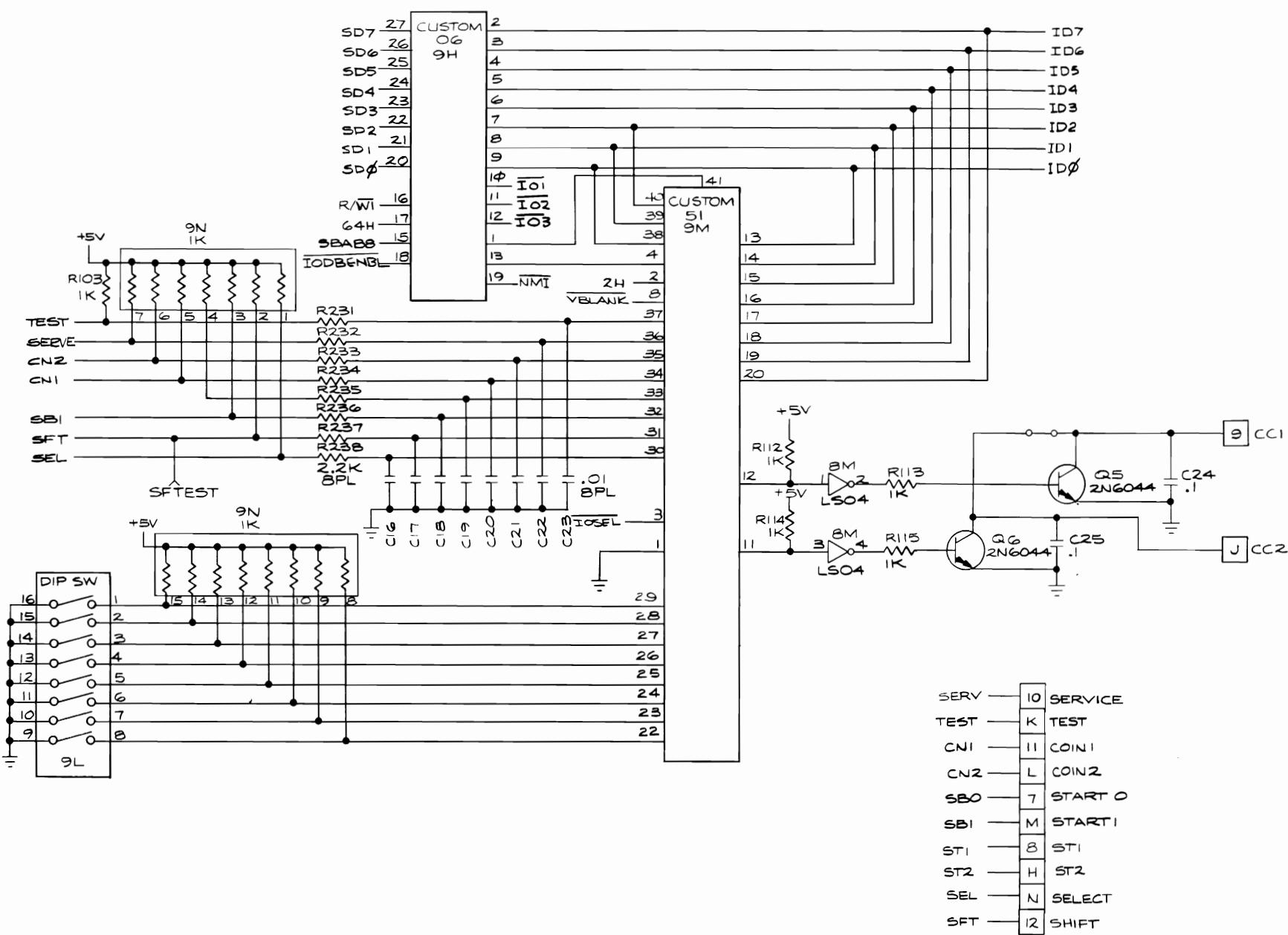


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Pole Position CPU PCB Schematic Diagram

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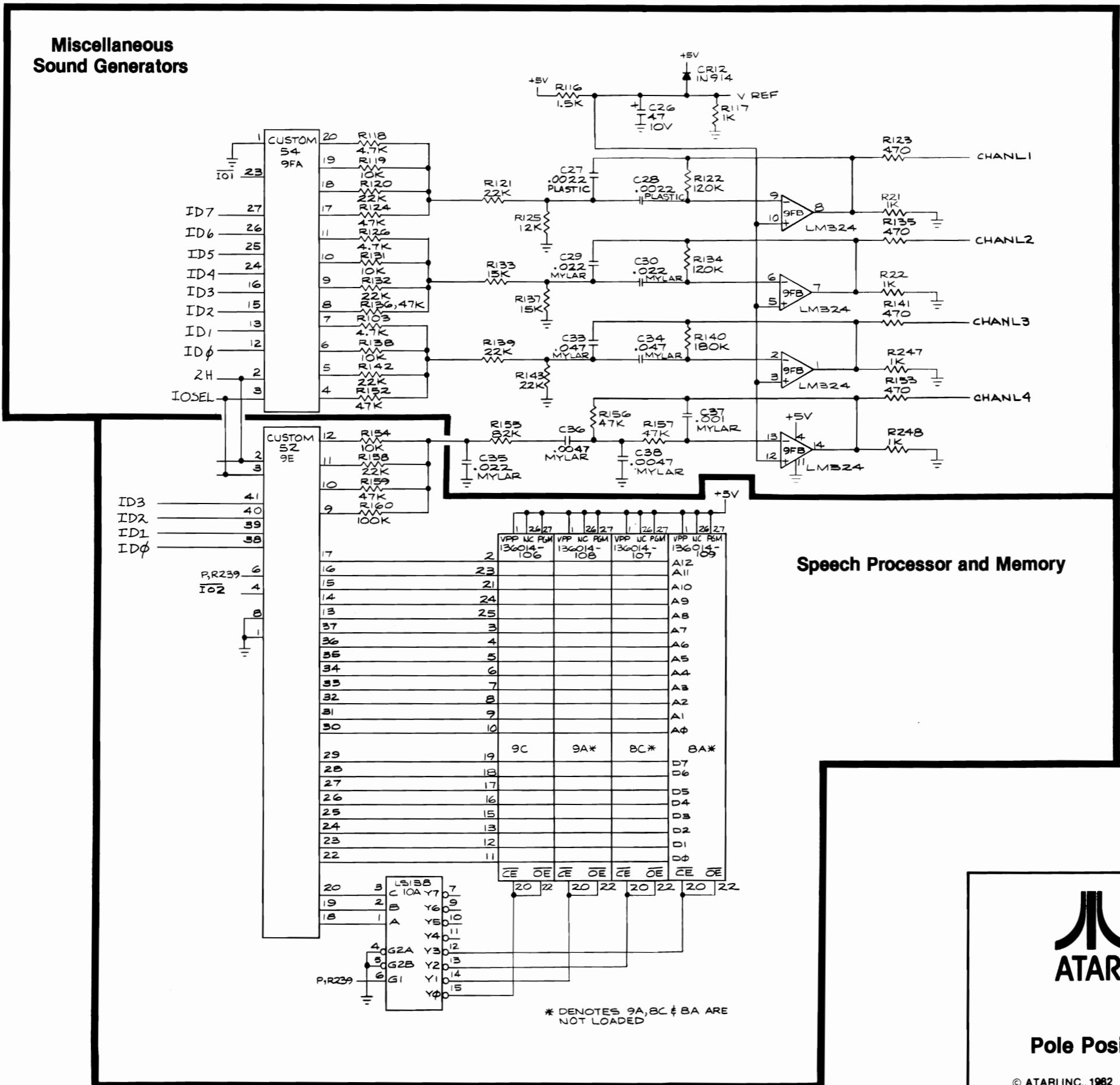
Option Switch Input and I/O Interface



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Pole Position CPU PCB Schematic Diagram

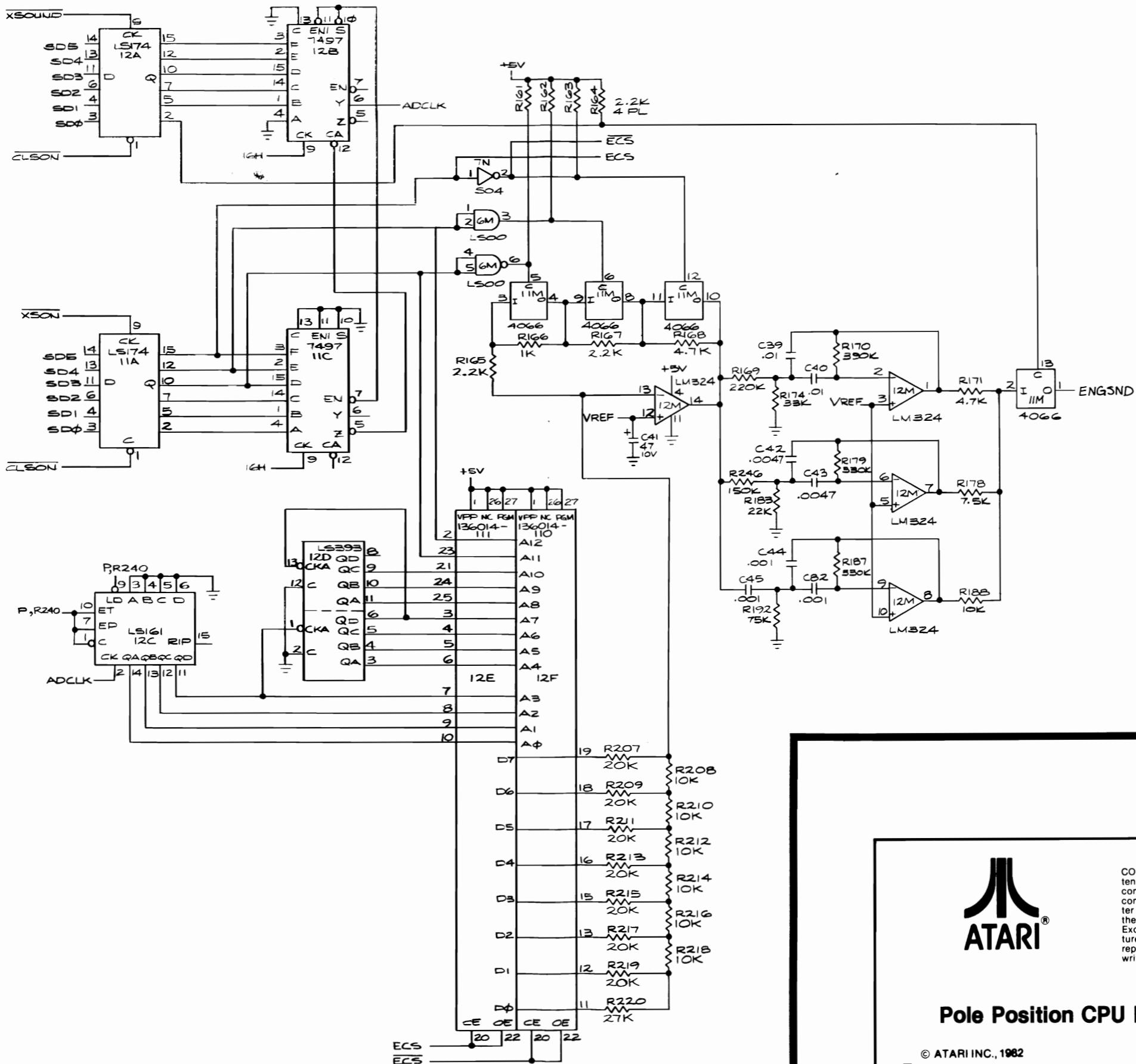
Miscellaneous Sound Generators



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Pole Position CPU PCB Schematic Diagram

Engine Sound Generator

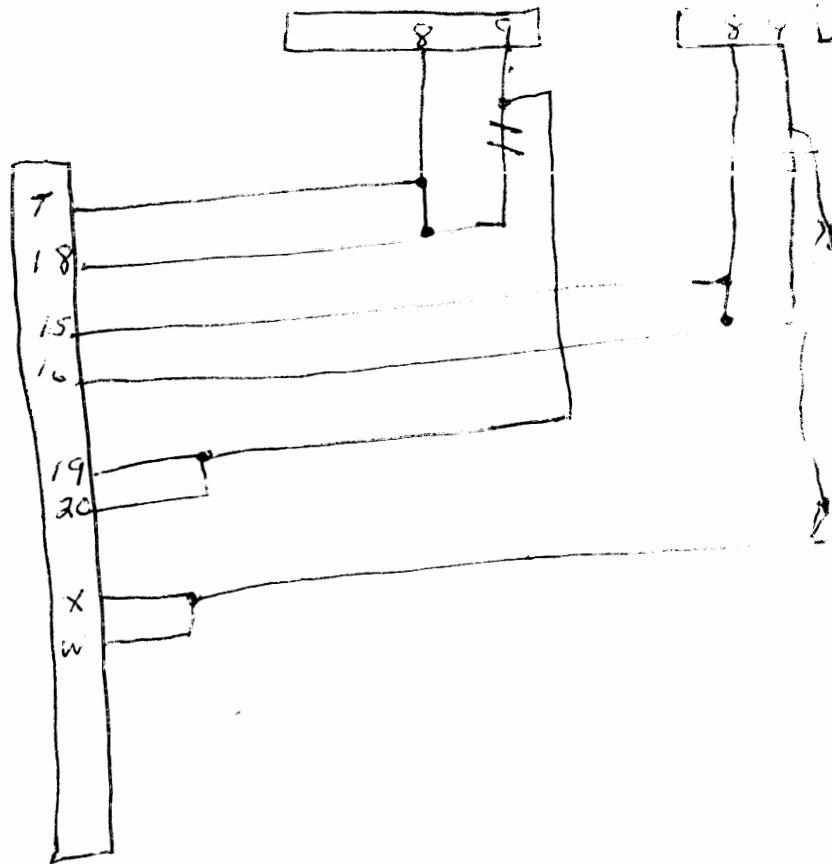
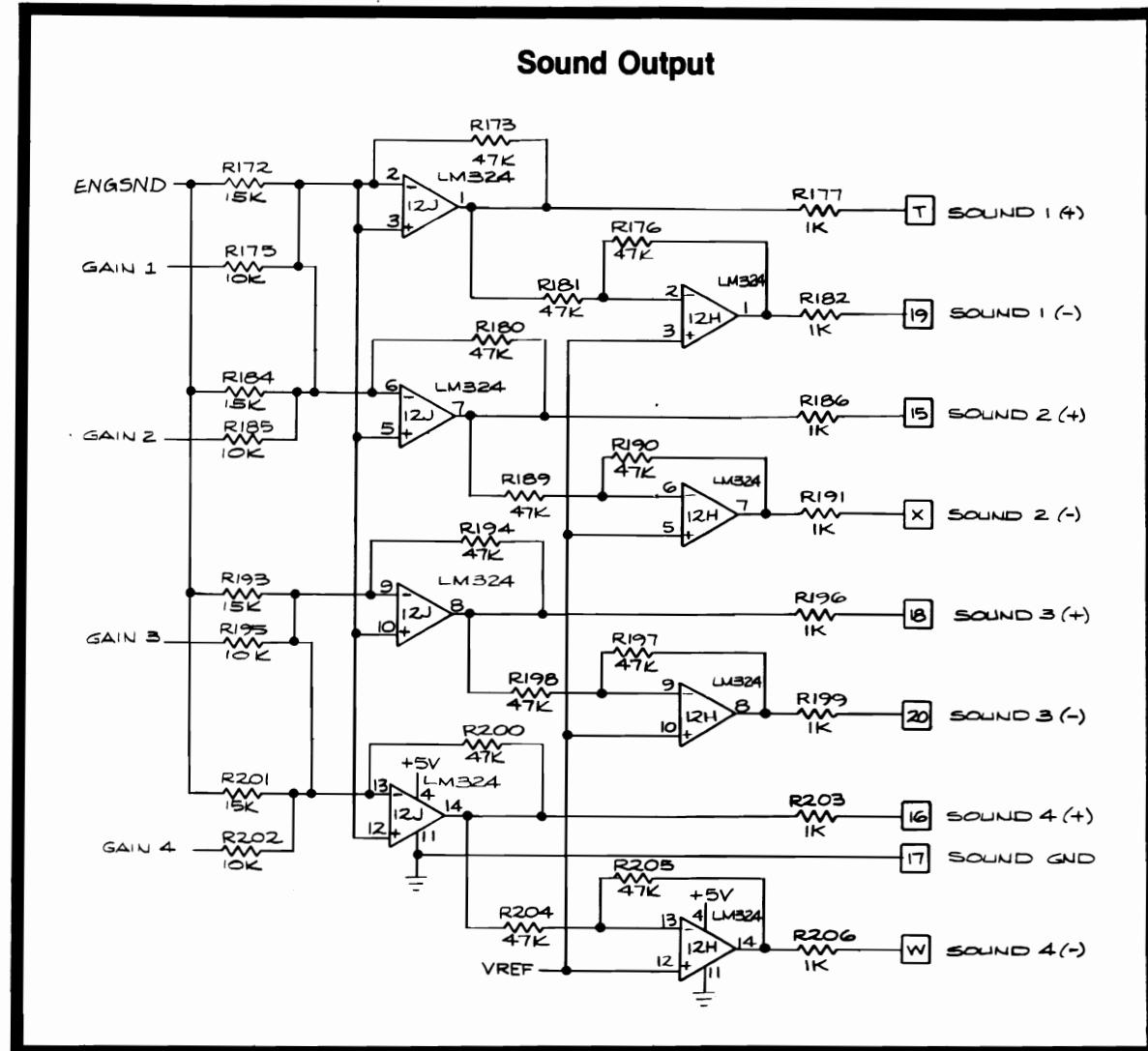


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Pole Position CPU PCB Schematic Diagram

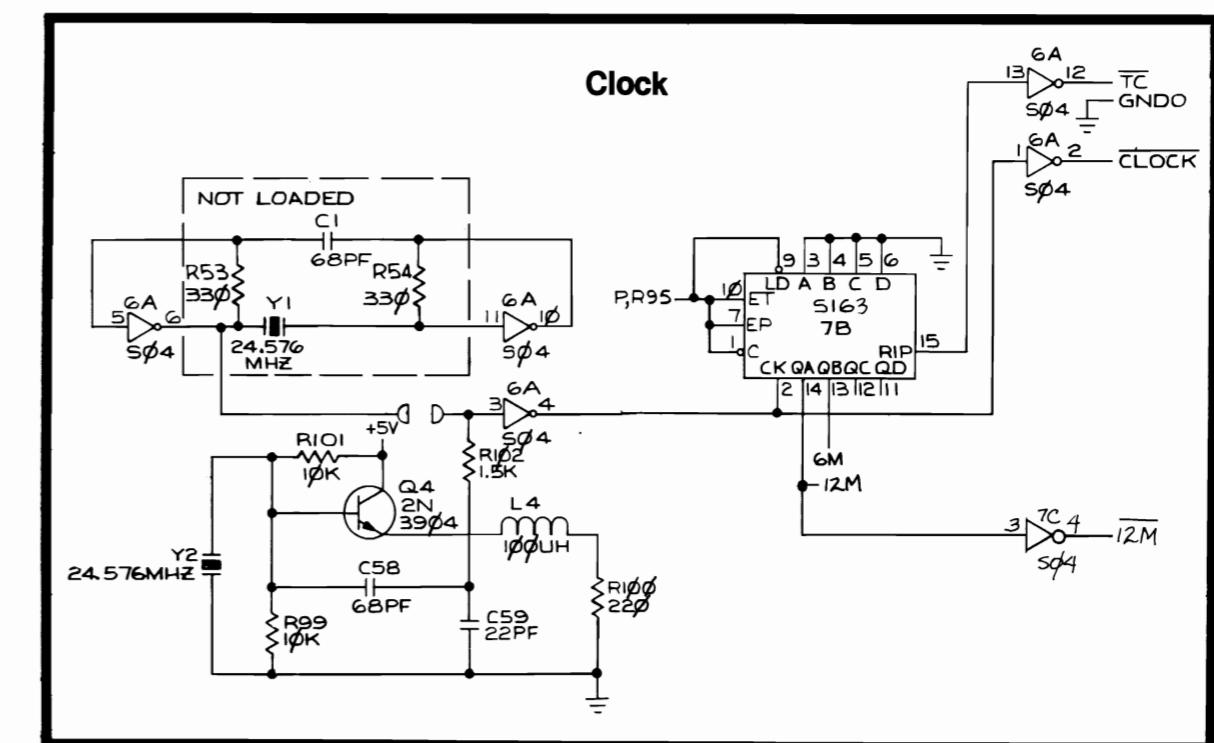
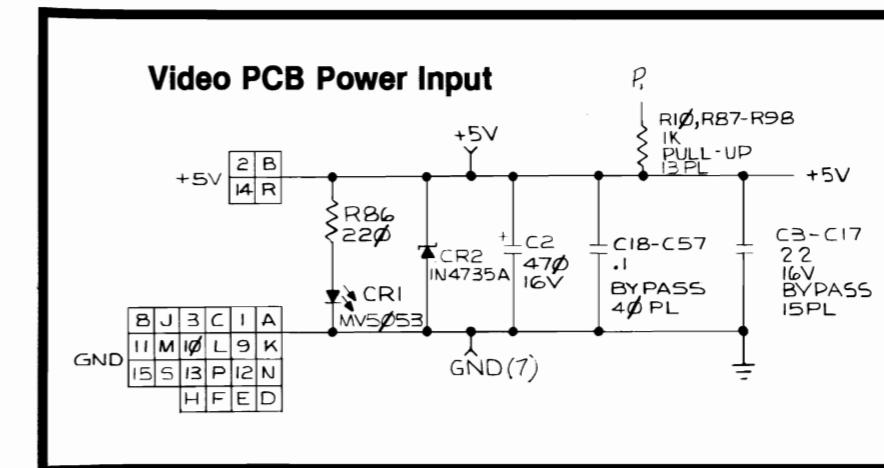
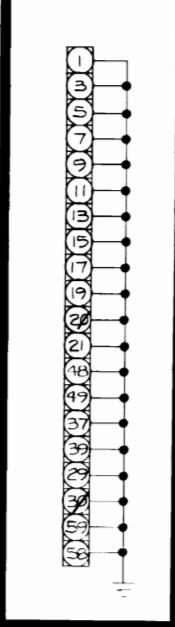
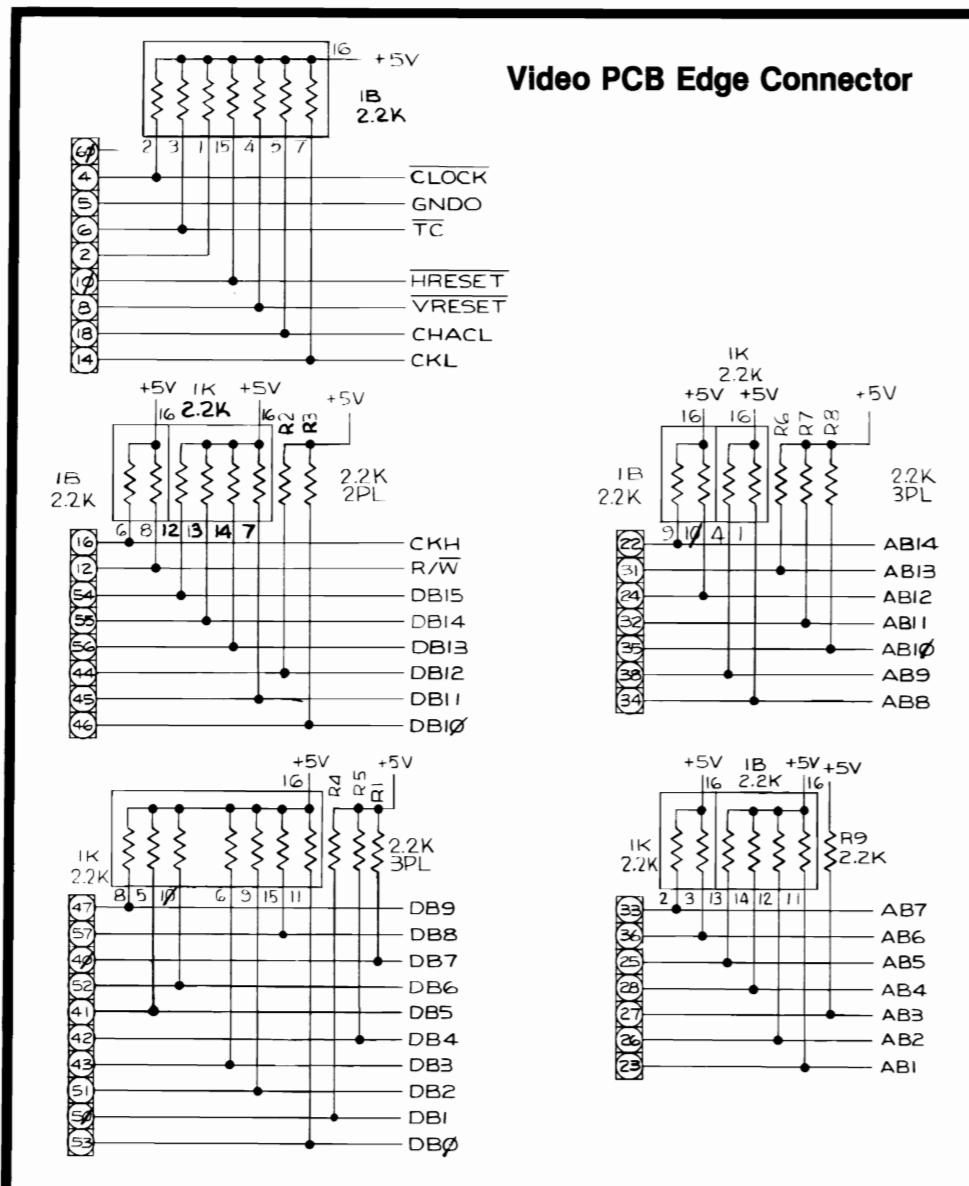
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Pole Position CPU PCB Schematic Diagram

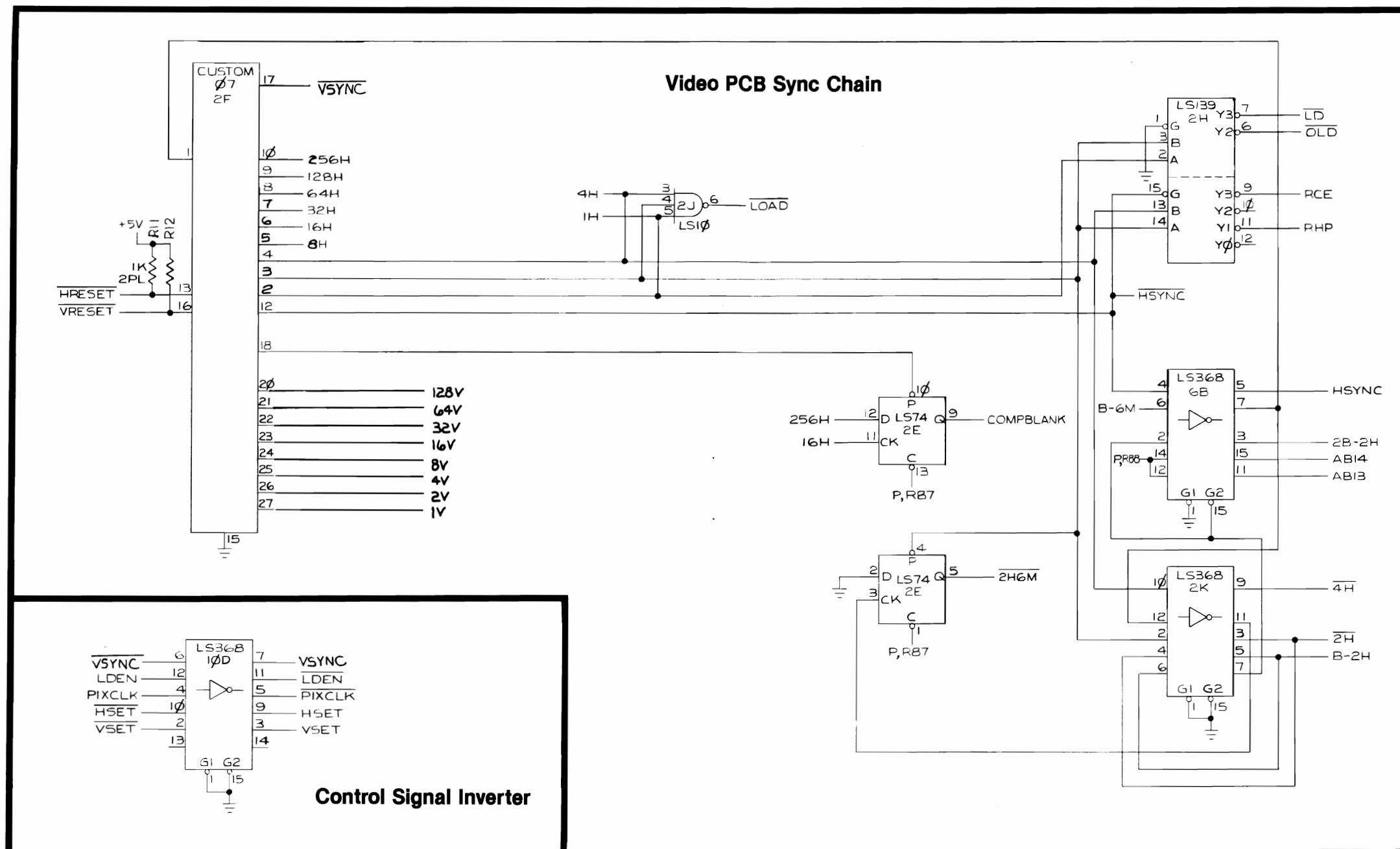


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Pole Position Video PCB Schematic Diagram

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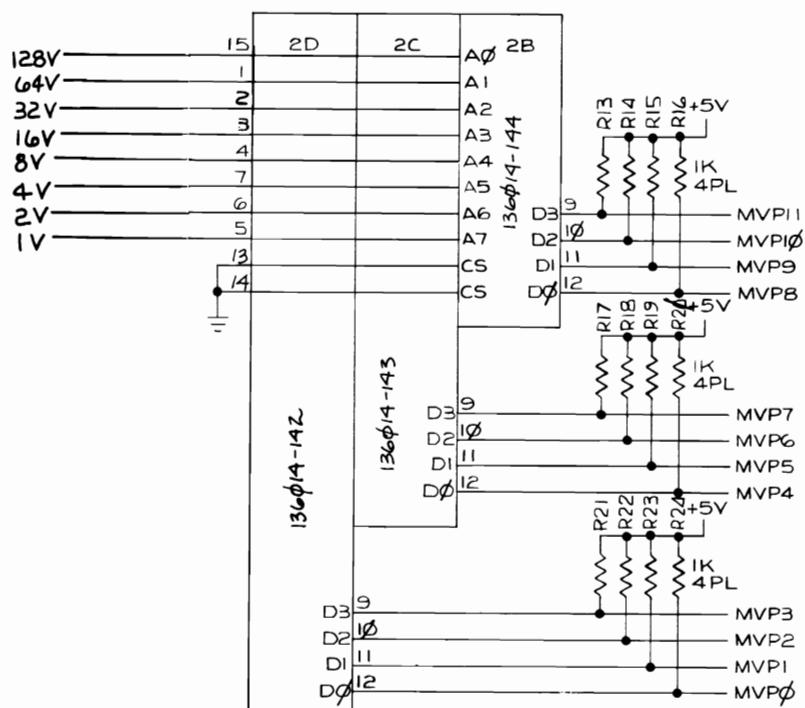
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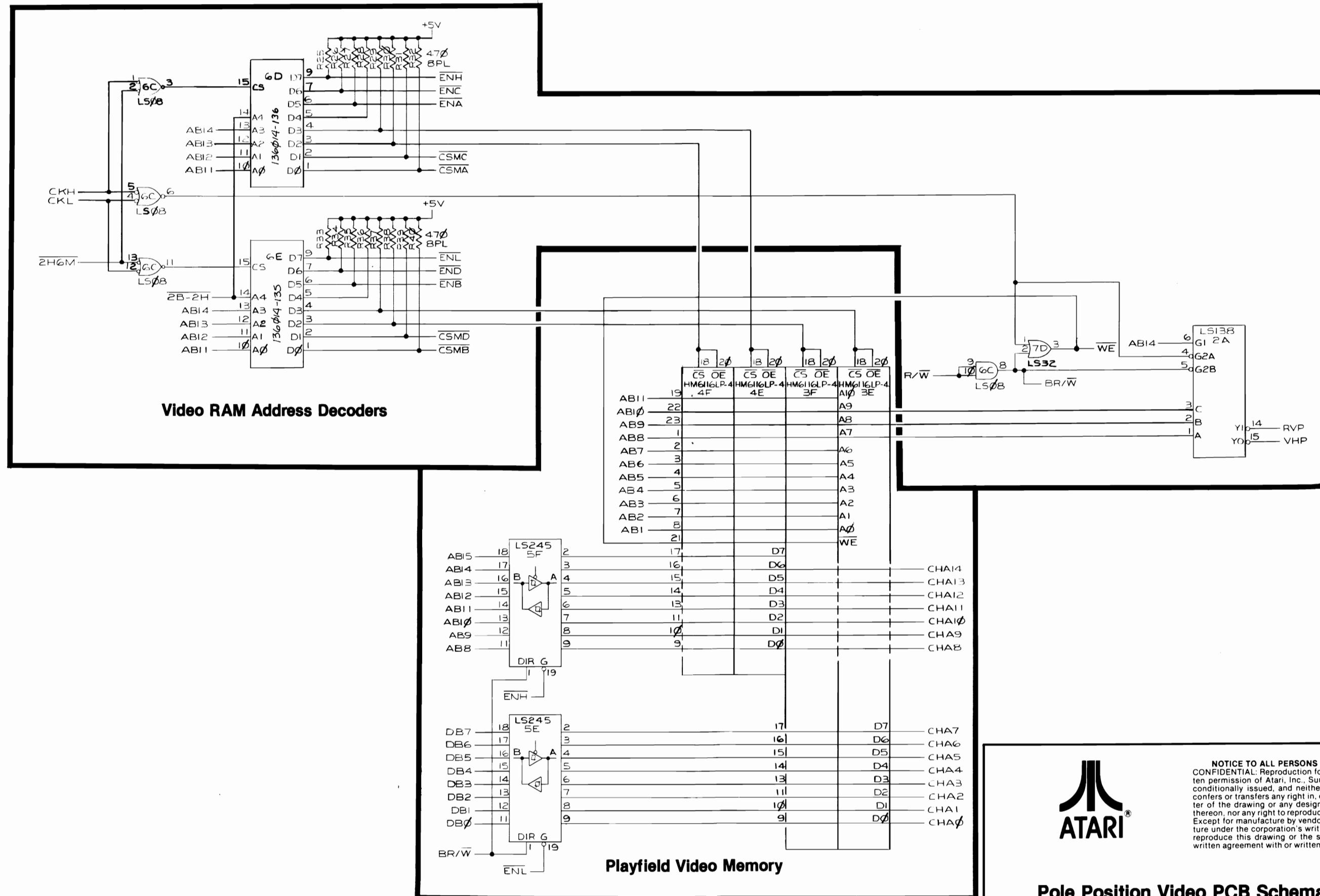
Pole Position Video PCB Schematic Diagram

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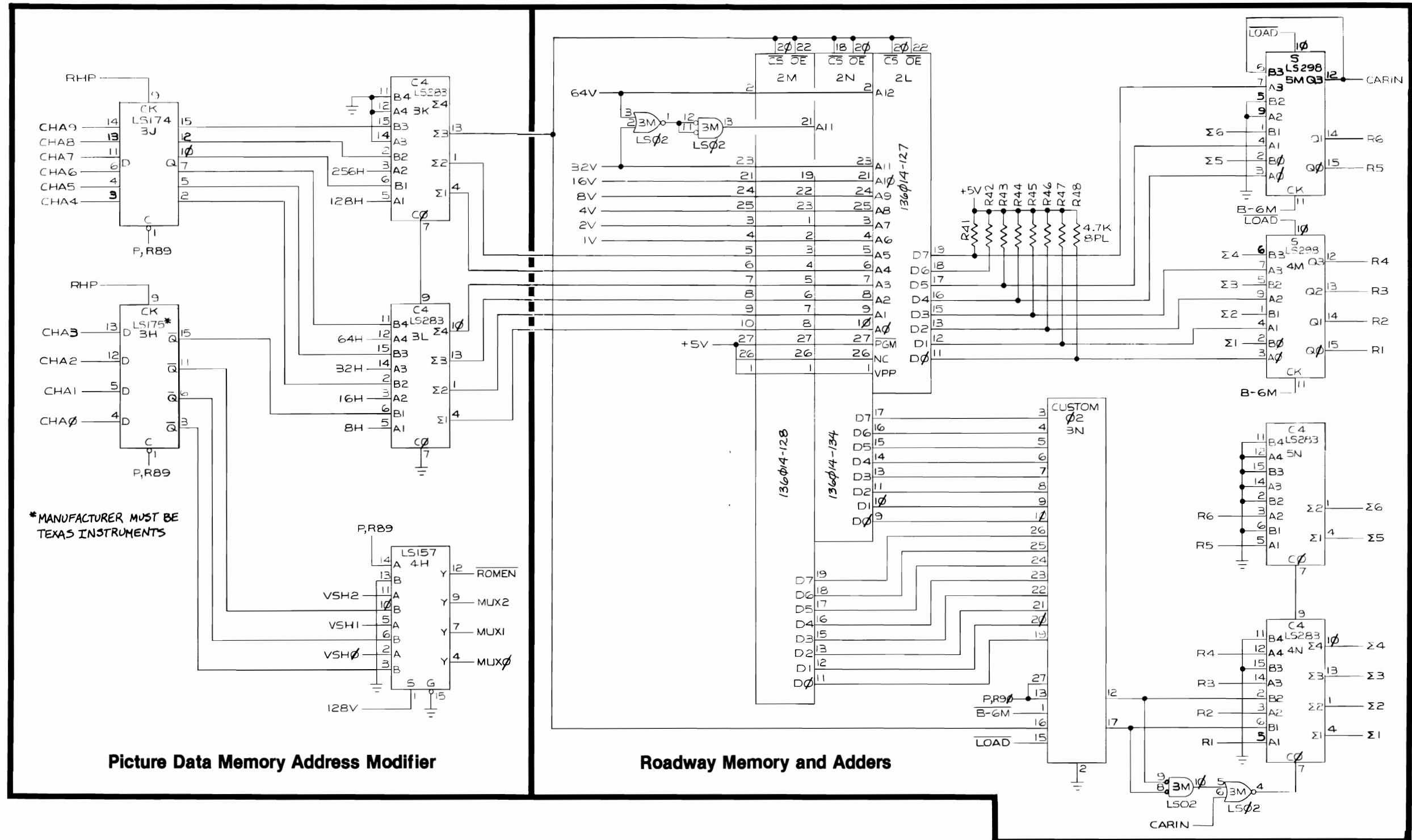
Vertical Position Modifiers





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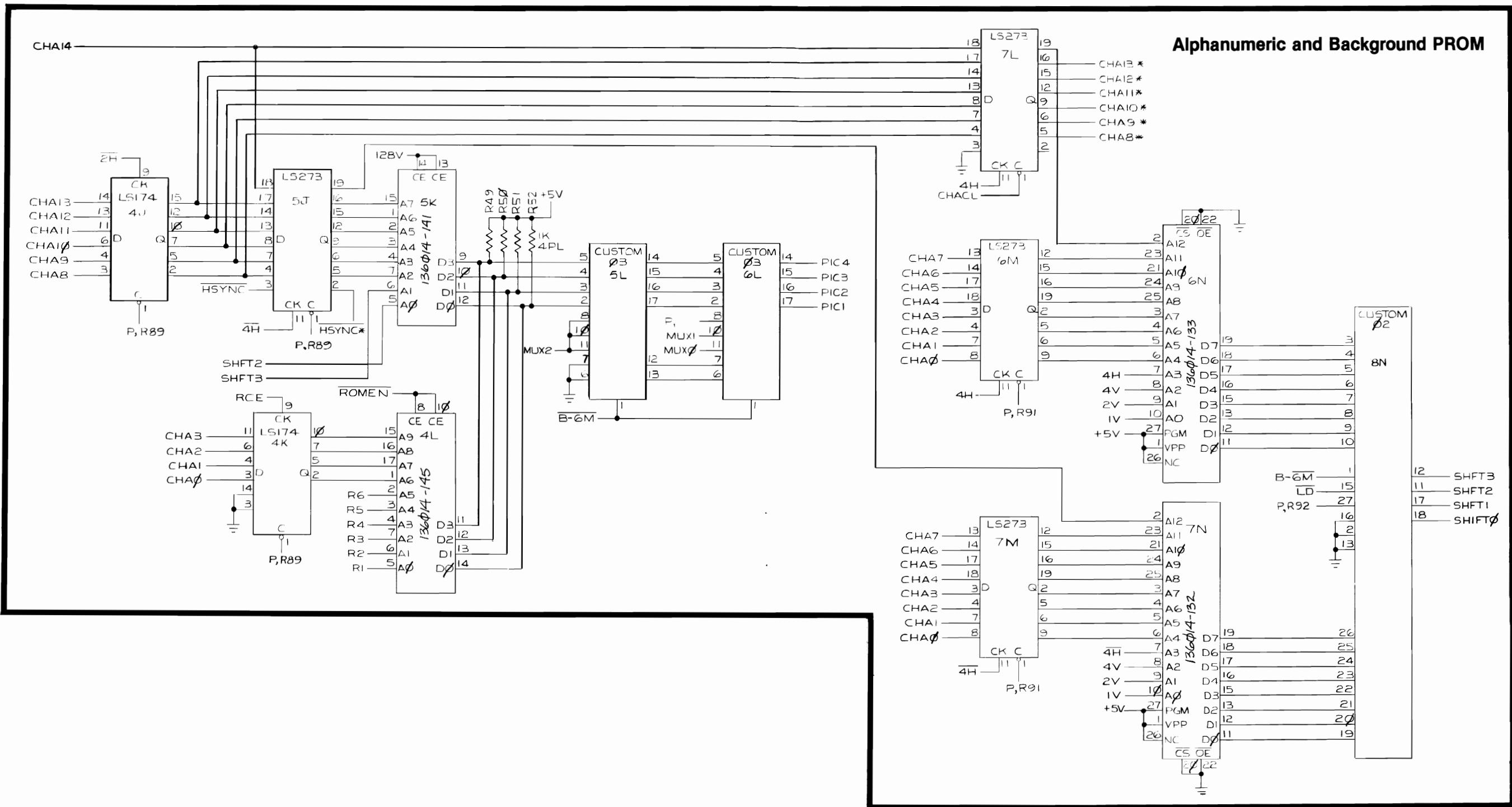
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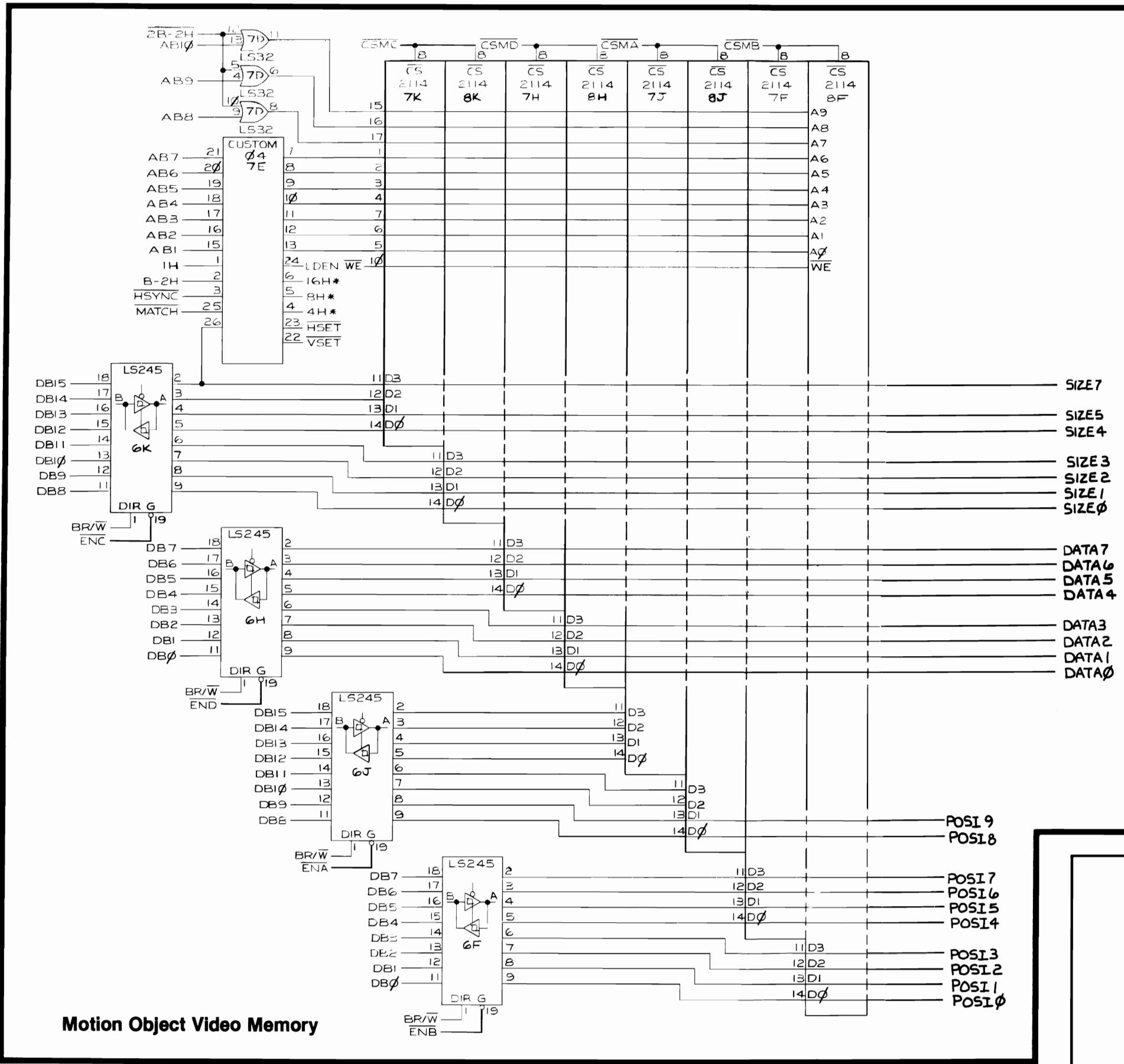


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Pole Position Video PCB Schematic Diagram

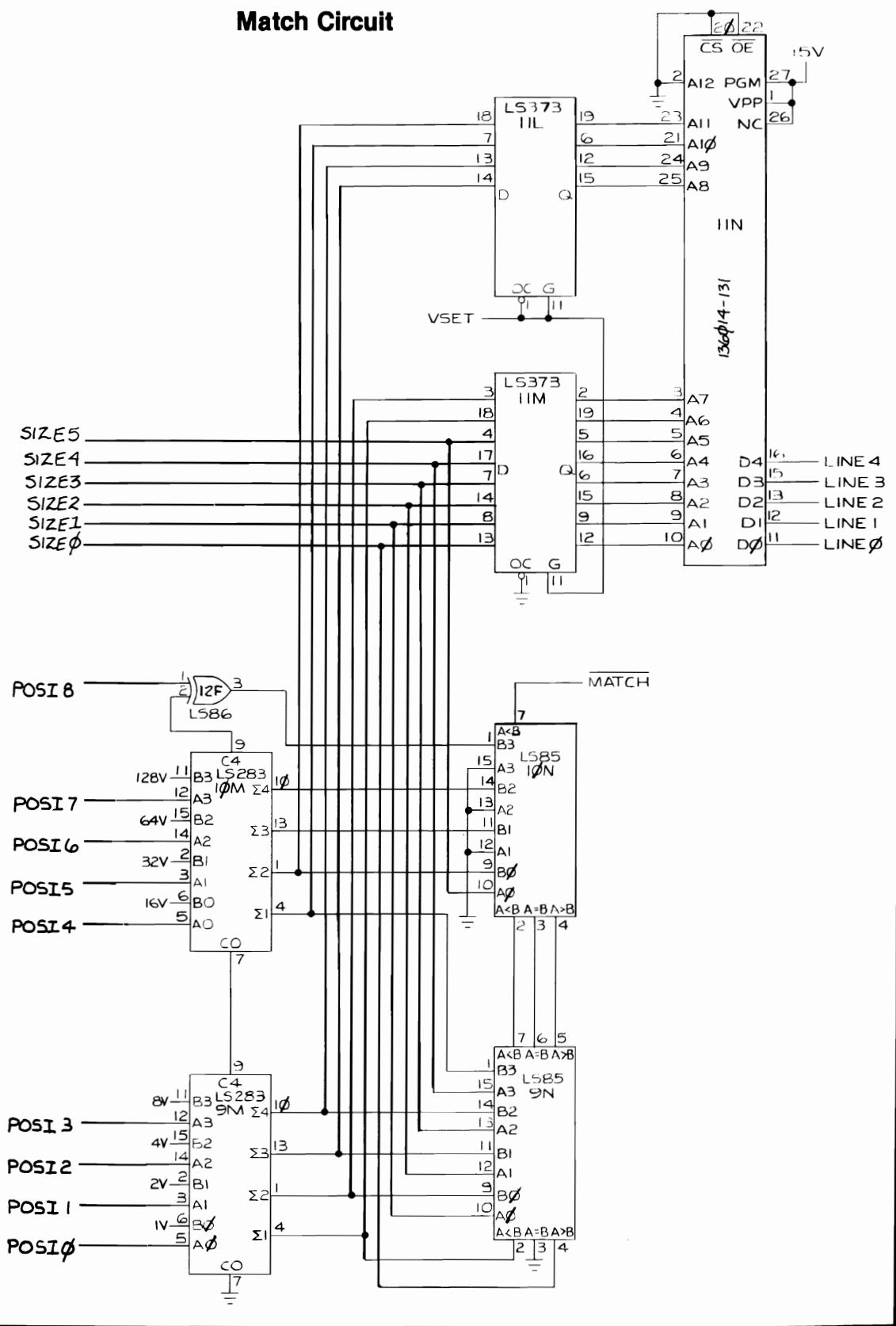
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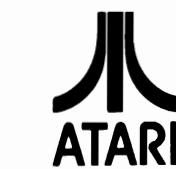
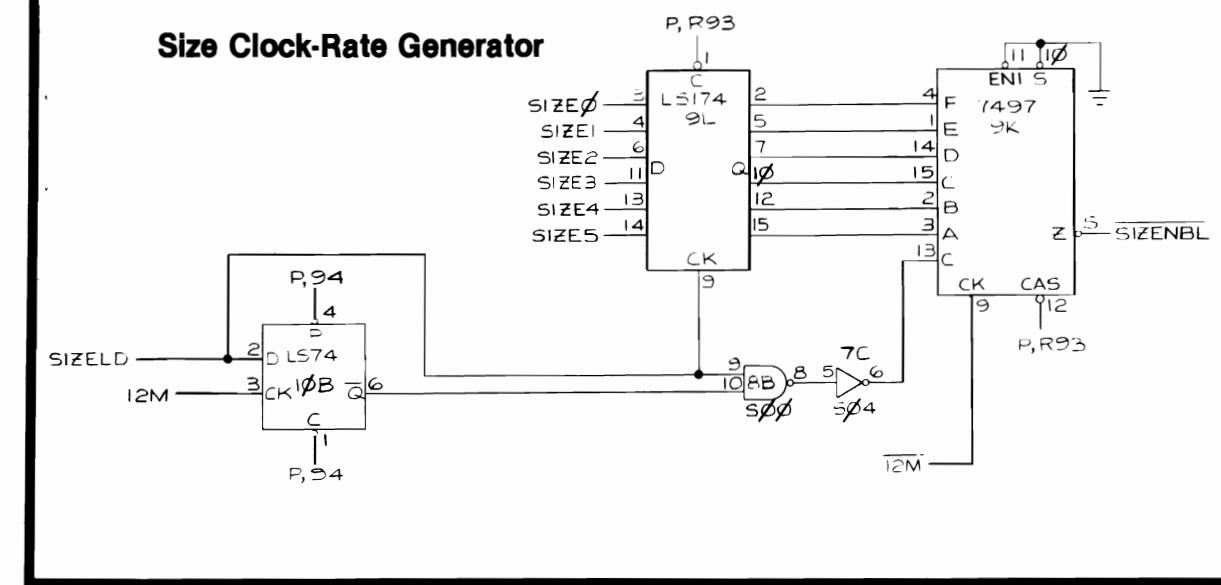


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Match Circuit



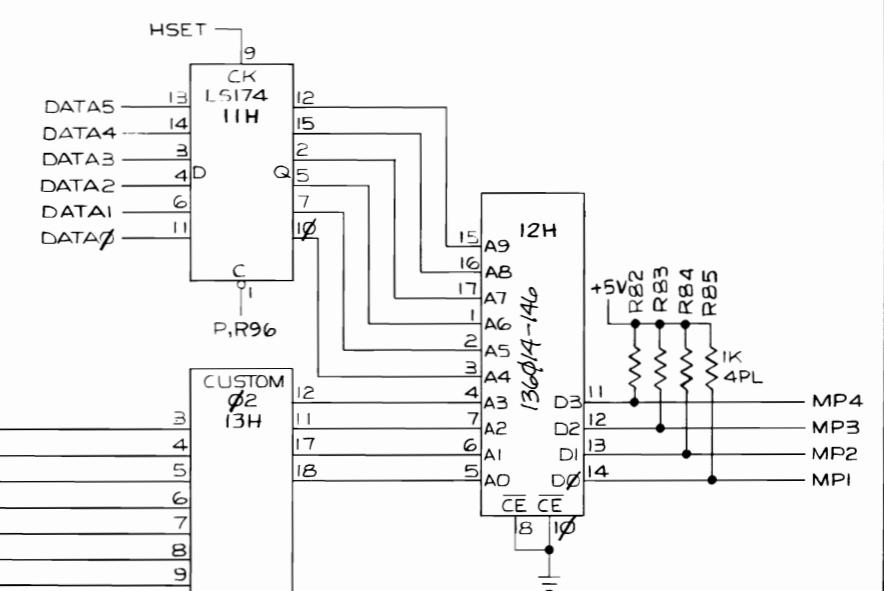
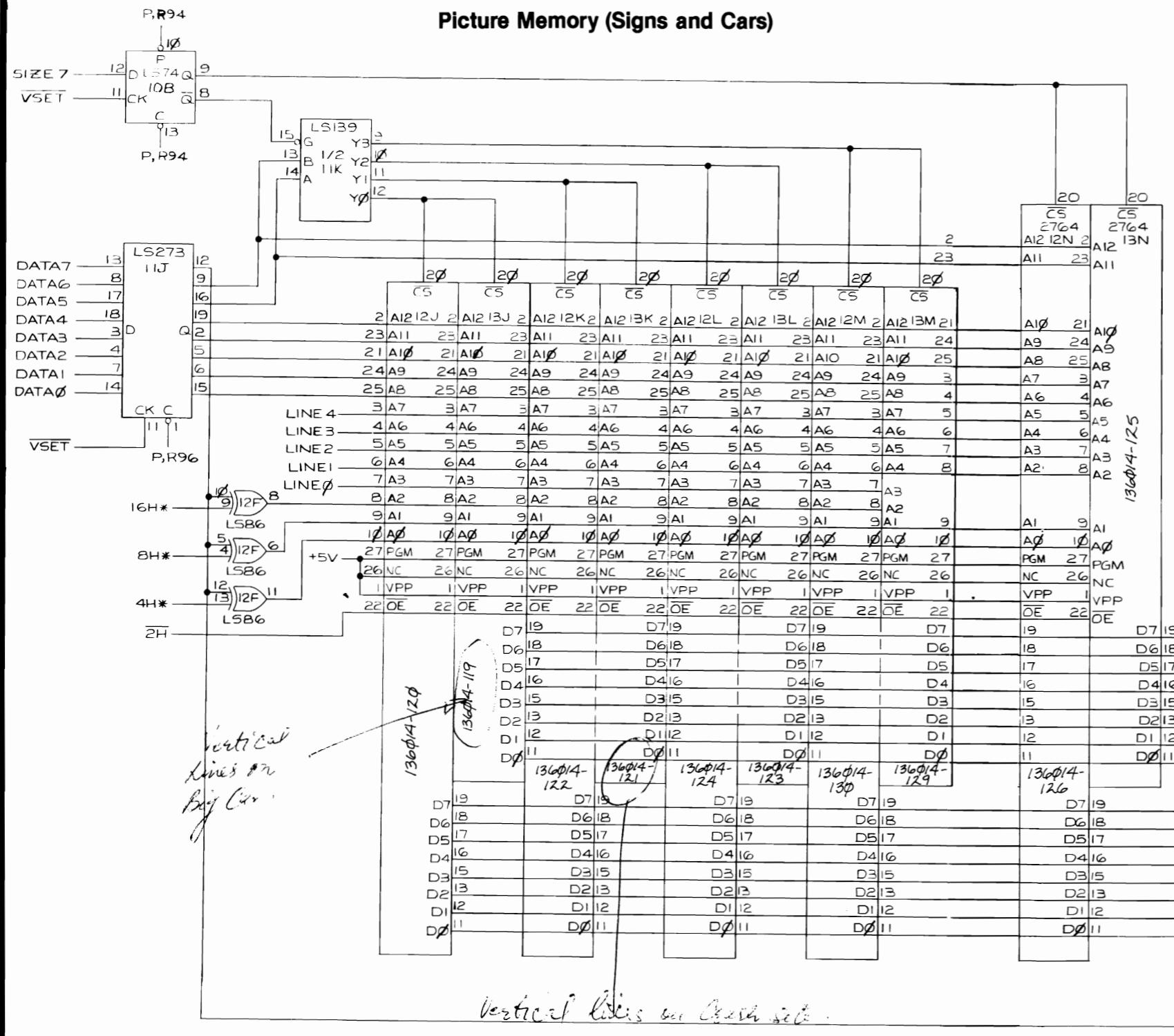
Size Clock-Rate Generator



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Pole Position Video PCB Schematic Diagram

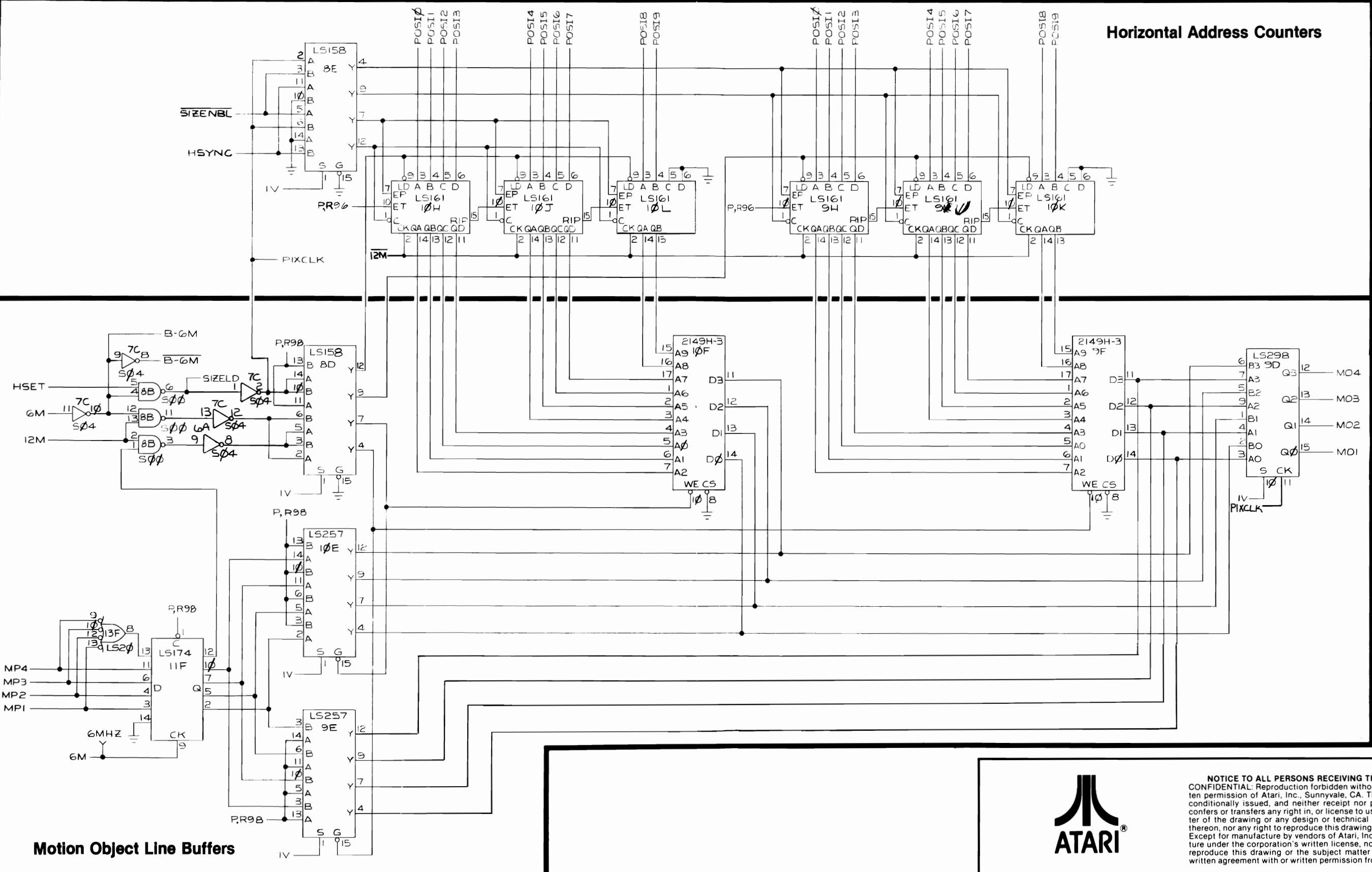
Picture Memory (Signs and Cars)



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Pole Position Video PCB Schematic Diagram

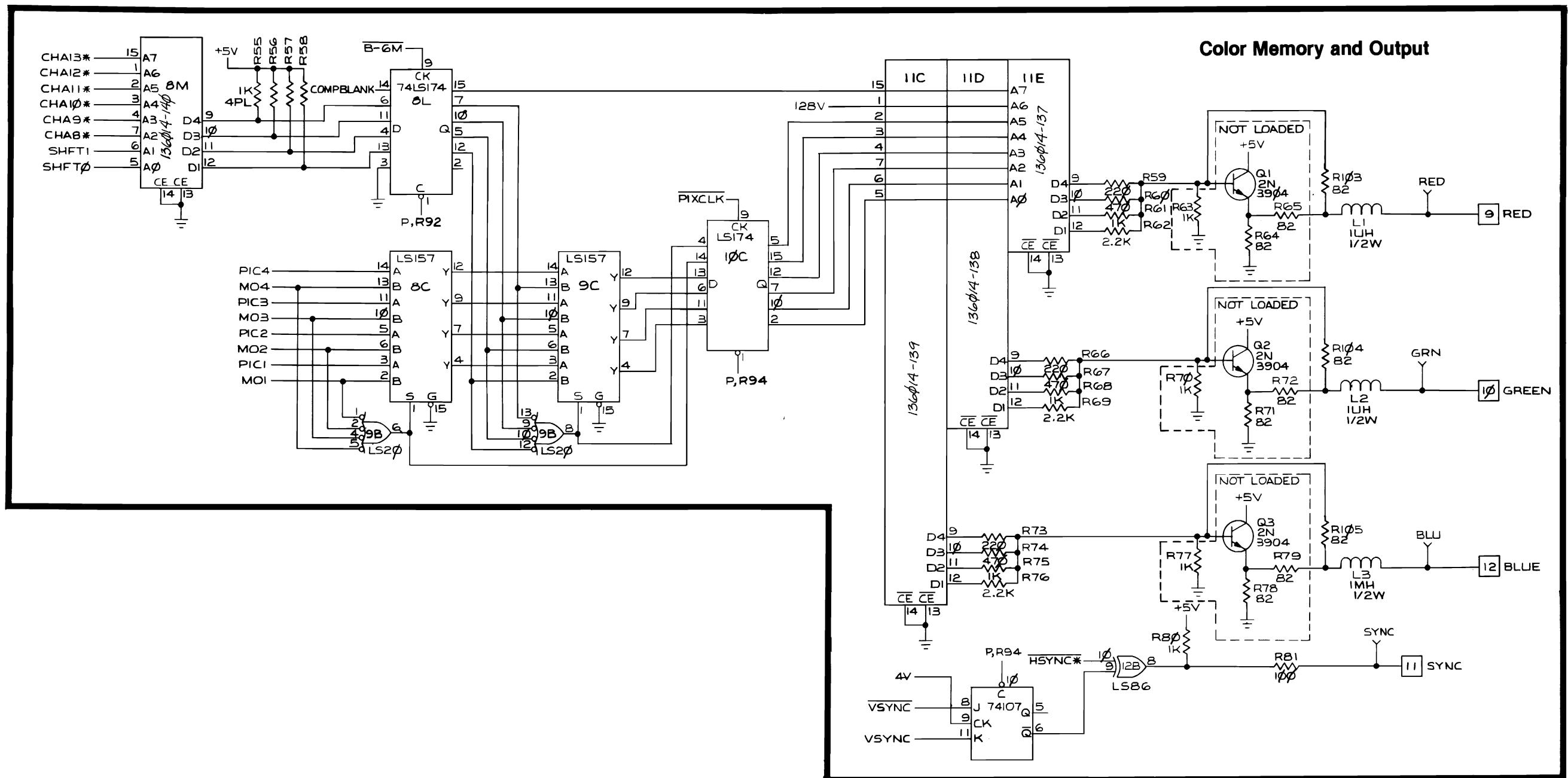
Horizontal Address Counters



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Pole Position Video PCB Schematic Diagram



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Pole Position Video PCB Schematic Diagram

Schematic Notes

Unless otherwise specified

Resistance: (Ω) ($K \rightarrow K\Omega$, $M \rightarrow M\Omega$), 1/4 (W) carbon resistor
Capacitance: 1 or higher \rightarrow (pF), less than 1 \rightarrow (μ F)
working voltage \rightarrow 50 (V)
ceramic capacitor

Inductance: (μ H)

Electrolytic Cap: Capacitance Value (μ F)/working voltage (V),
NP \rightarrow non-polar (or bipolar) electrolytic cap.
Refer to the parts list for additional component information.

 indicates test point connection

 indicates chassis ground unless otherwise specified

Hz indicates cycles per second

For safety purposes (and continuing reliability)

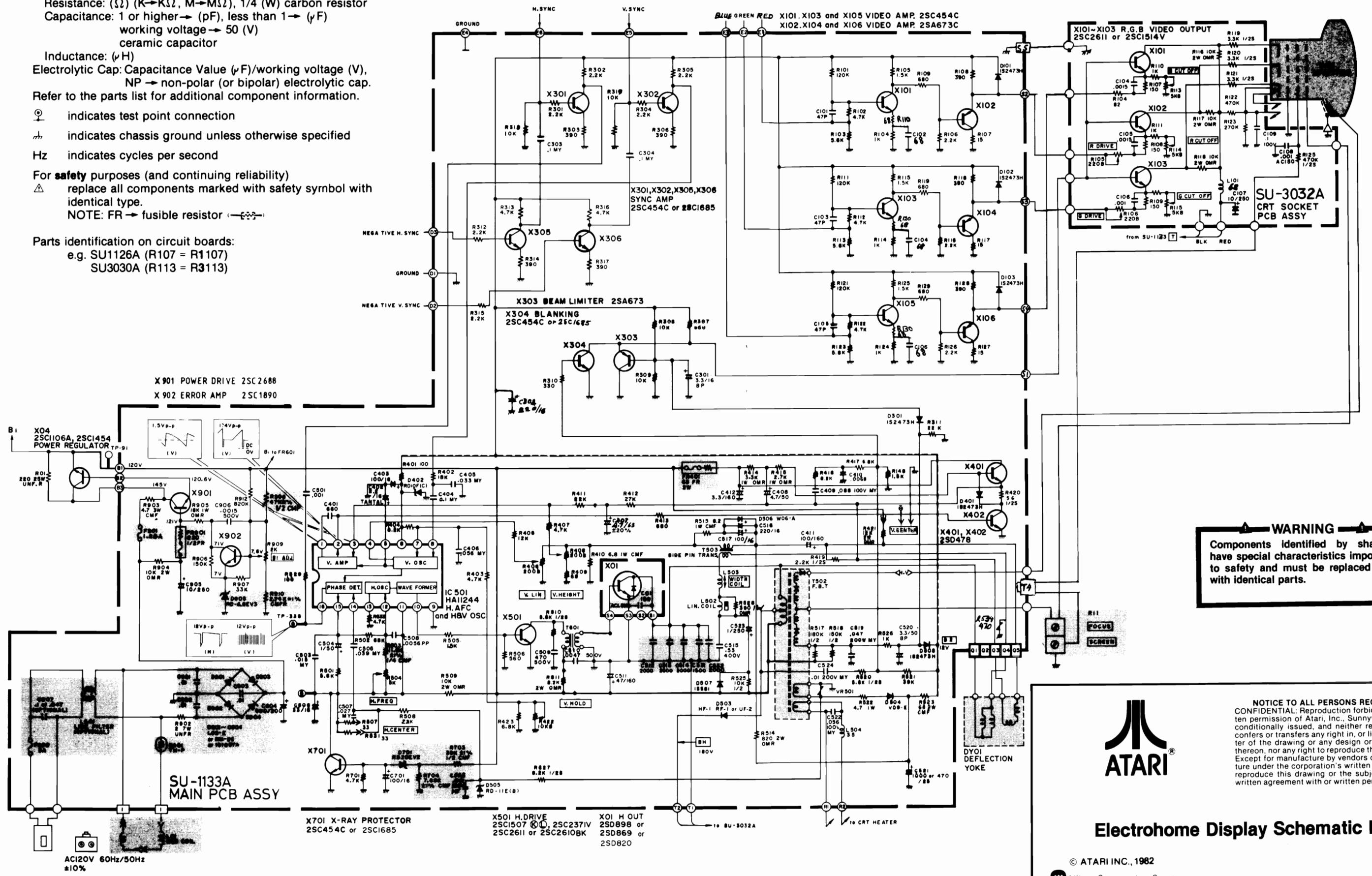
 replace all components marked with safety symbol with identical type.

NOTE: FR \rightarrow fusible resistor 

Parts identification on circuit boards:

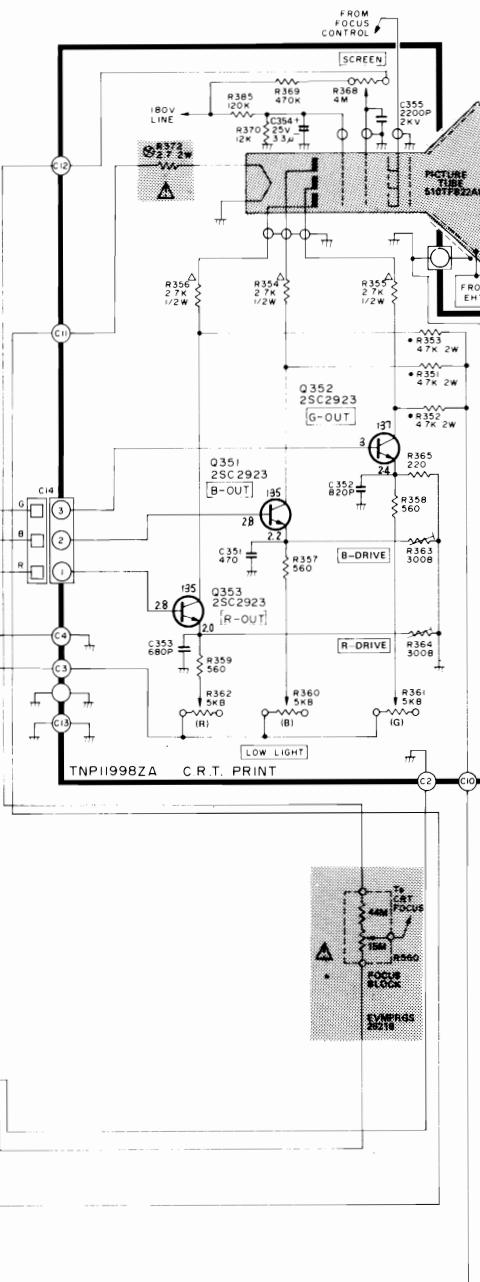
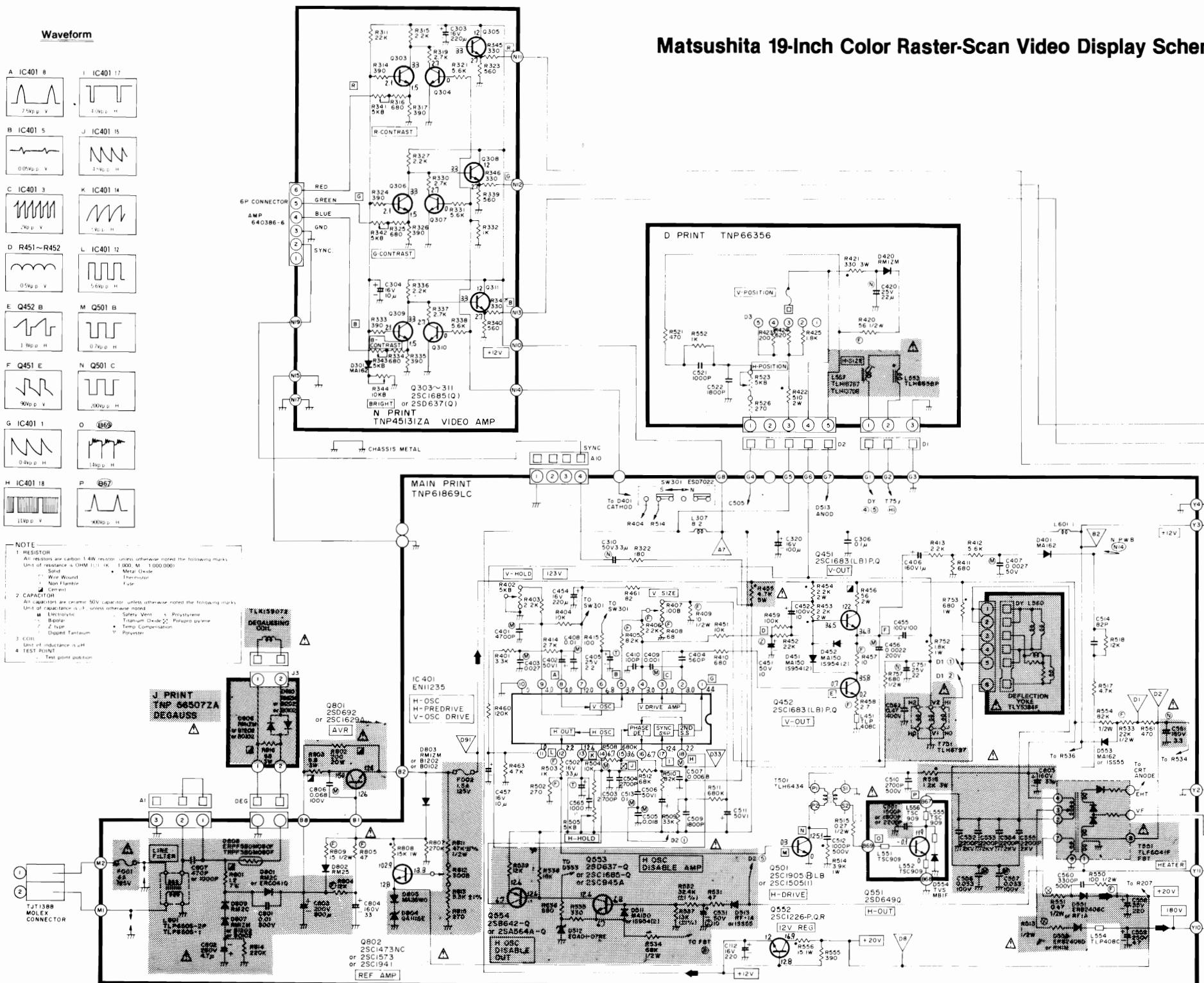
e.g. SU1126A (R107 = R1107)
SU3030A (R113 = R3113)

Electrohome 19-Inch Color Raster-Scan Video Display Schematic Diagram



Electrohome Display Schematic Diagram

Matsushita 19-Inch Color Raster-Scan Video Display Schematic Diagram



WARNING
Components identified by shading have special characteristics important to safety and must be replaced only with identical parts.



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Matsushita Display Schematic Diagram

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